DOCUMENT RESUME

ED 158 718 IR 006 168

AUTHOR	McGrew, Mary Lou; Buckingham, Betty Jo
TITLE	Survey of the Status of Media Service in Iowa Public Schools.
INSTITUTION	Iowa State Dept. of Public Instruction, Des Moines. Educational Media Section.
PUB DATE	78
NOTE	323p.
EDRS PRICE	MF-$0.83 HC-$16.73 Plus Postage.
DESCRIPTORS	Ancillary Services; Audiovisual Instruction; *Audiovisual Programs; *Educational Assessment; Elementary Secondary Education; *Instructional Media; Media Research; Needs Assessment; *Public Schools; School Surveys; *State Surveys; Tables (Data); Use Studies
IDENTIFIERS	United States (Midwest)

ABSTRACT

The Iowa Educational Media Association (IEMA) and the State Department of Public Instruction conducted a survey in the fall of 1976 on the status of media services in its 1,792 public schools; the return rate from mailed questionnaires was above 90%. Media services were assessed in terms of relative success in meeting state guidelines for materials, equipment, seating, personnel, and budget. Generally, the number of schools not meeting guidelines far exceeded those which did. The data collected are available on computer tape and on microfiche for use in research projects throughout the state. Appendices include (1) the research proposal presented to the IEMA Board, (2) preliminary data analysis procedures, (3) cover letters and survey instrument, (4) editing guidelines for completed instruments, (5) the preliminary survey report of May 1977, and (6) glossary. (CMV)

****
* Reproductions supplied by EDRS are the best that can be made *
* from the original document. *
****

ED158718

U.S. DEPARTMENT OF HEALTH,
EDUCATION & WELFARE
NATIONAL INSTITUTE OF
EDUCATION

THIS DOCUMENT HAS BEEN REPRODUCED EXACTLY AS RECEIVED FROM THE PERSON OR ORGANIZATION ORIGINATING IT. POINTS OF VIEW OR OPINIONS STATED DO NOT NECESSARILY REPRESENT OFFICIAL NATIONAL INSTITUTE OF EDUCATION POSITION OR POLICY

SURVEY OF THE STATUS OF MEDIA SERVICE IN IOWA PUBLIC SCHOOLS

Mary Lou McGrew
Betty Jo Buckingham

with the assistance of

Linda McGrew
Gerald Hodges

"PERMISSION TO REPRODUCE THIS MATERIAL HAS BEEN GRANTED BY

Mary Jo Bruett

TO THE EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC) AND USERS OF THE ERIC SYSTEM."

Iowa Department of Public Instruction
Des Moines, Iowa
1978

IR006 168

State of Iowa
DEPARTMENT OF PUBLIC INSTRUCTION
Educational Media Section
Grimes State Office Building
Des Moines, Iowa 50319

STATE BOARD OF PUBLIC INSTRUCTION

Jolly Ann Davidson, President, Clarinda
John E. van der Linden, Vice-President, Sibley
Cornelius Bodine, Jr., Sioux City
William N. Cropp, Des Moines
Karen K. Goodenow, Wall Lake
Virginia Harper, Fort Madison
T. J. Heronimus, Grundy Center
Robert G. Koons, Clinton
Susan M. Wilson, Waterloo

ADMINISTRATION

Robert D. Benton, State Superintendent and Executive Officer
of the State Board of Public Instruction
David H. Bechtel, Administrative Assistance
James E. Mitchell, Deputy State Superintendent

Instruction and Professional Education Branch

Donald V. Cox, Associate Superintendent

Paul L. Spurlock, Chief, Educational Media Section

Russell Blumeyer, Consultant
Betty Jo Buckingham, Consultant
Mary Jo Bruett, Referral Specialist
Kathy Borlin, Research Associate
Mary Dobson, Research Associate
Gwendolyn N. Nagel, Research Associate

PREFACE

The Educational Media Section of the Iowa Department of Public Instruction has as one of its responsibilities participation in the collection and dissemination of information about school media service in the public schools of Iowa. A major purpose for such data collection and dissemination is the encouragement of improved media services for school students and teachers. For this reason the Section welcomed an opportunity to cooperate with the Iowa Educational Media Association in the Survey of the Status of Media Services. The survey questionnaire was mailed in September 1976 covering the 1975-76 school year. The data presented here will be distributed to local and AEA media personnel and school administrators by the Department. It will also be distributed to target groups selected by IEMA in its campaign to improve school media services.

Grateful acknowledgment is given to all people who assisted in this project but especially to the Iowa Educational Media Association Survey Committee, all of whom donated considerable personal time. Mary Lou McGrew served as major writer for both the proposal and the report. Patricia Meier headed the IEMA elementary subgroup which initiated the proposal and Tim O'Shaughnessy edited the returned questionnaires. Several Department employees also were much involved. Betty Jo Buckingham worked with the committee and the Management Information Division on all aspects of the survey. Eldert "Buck" Groenendyk of the Management Information Division of the Department helped prepare the questionnaire and designed the computer output. Linda Wadsworth of the clerical staff of the Section typed and helped proofread tables and other copy for the report.

Without the willing assistance of all these people the survey would not have been possible. With their assistance, this document is available to help schools plan improved media programs. It will also be used to determine possible revisions of the Plan for Progress in the Media Center series. The information gathered will serve as invaluable base data for future studies. Even in incomplete form the data collected has been used to answer numerous questions from local schools, from AEAMC's, and from other Department Staff. Parts of this study have been incorporated into the Department's State Equalization Plan. The data collected is available on computer tape and on microfiche for use in research projects throughout the state.

Paul L. Spurlock

MEMBERS OF SURVEY COMMITTEE

Doris Airy, Librarian
Benton Community School District
Van Horne, Iowa

Betty Jo Buckingham, Consultant
Educational Media Section
Iowa State Department of Public
Instruction
Grimes State Office Building
Des Moines, Iowa 50319

Leone Deskin
Elementary Librarian
West Ridge Elementary School
Harlan, Iowa 51537

Gerald Hodges
Assistant Professor
Department of Library Science
University of Northern Iowa
Cedar Falls, Iowa 50613

Mary Lou Kirk
Media Specialist
Valley High School
West Des Moines, Iowa 50265

Linda McGrew
Media Specialist
Garfield Elementary School
1201 Maplewood Drive, N.E.
Cedar Rapids, Iowa 52402

Mary Lou McGrew
Assistant Professor
Department of Library Science
University of Northern Iowa
Cedar Falls, Iowa 50613

Patricia Meier, Chairperson
Librarian
Bettendorf-Armstrong Elementary
Bettendorf, Iowa 52803

Ann Meyer, Elementary Librarian
Garfield Elementary School
Boone, Iowa 50036

Kathryn O'Shaughnessy, Library
Media Specialist
Middle School
Bettendorf, Iowa 52803

Tim O'Shaughnessy
218 West Oak Street
Eldridge, Iowa 52748

Maxine Pithan, Media Specialist
Manilla Community Schools
Manilla, Iowa 51454

TABLE OF CONTENTS

LIST OF TABLES vi

CHAPTER I

Introduction 1

CHAPTER II

Data Analysis Procedures 4

CHAPTER III

Analysis of Quantified Guidelines 7

CHAPTER IV

Questions Implied by Plan for Progress For Which No Guidelines Are Provided 22

CHAPTER V

Interpretation and Conclusions 32

APPENDICES
- A. Proposal Presented to IEMA Board 189
- B. Preliminary Data Analysis Procedures. 199
- C. Cover Letters and Survey Instrument 203
- D. Editing Guidelines for Completed Instruments 217
- E. Media Survey Preliminary Report, May 1977 221
- F. Glossary 225

List of Tables

1 Survey Participation 37
1.1 IEMA-DPI MEDIA SURVEY Distribution Chart 38
2 Total Guidelines Met, Span 1, K-6 Statistical Measures of Comparison by Size 39
2.1 Number and Percentage of Elementary Schools Meeting 12 or Fewer or 13 or More Guidelines by Size 40
2.2 Total Guidelines, Span 1, K-6 Number of Guidelines, Cumulative Numbers, and Cumulative Percents by Size 41
2.3 Number and Percentages of Secondary Schools Meeting 13 or Fewer or 14 or More Guidelines by Size Code 42
2.4 Total Guidelines, Span 2, 7-12 Statistical Measures of Comparison by Size 43
2.5 Total Guidelines, Span 2, 7-12 Number of Guidelines, Cumulative Numbers and Cumulative Percents by Size 44
3 Plan for Progress Phase I Guidelines for Material 45
3.1 Materials Guidelines, Span 1, K-6 Three Measures of Central Tendency by Size 46
3.2 Cumulative Percentages of Elementary Schools Meeting 0, 0-1, and 0-2 Materials Guidelines by Size 46
3.3 Number of Materials Guidelines Met, Span 1, K-6 by Numbers and Percentages of Schools and by Cumulative Frequencies and Percentages by Size 47
3.4 Materials Guidelines, Span 2, 7-12 Three Measures of Central Tendency by Size 48
3.5 Cumulative Percentages of Secondary Schools Meeting 0, 0-1, and 0-2 Materials Guidelines by Size 48
3.6 Number of Materials Guidelines Met, Span 2, 7-12 by Numbers and Percentages of Schools and by Cumulative Frequencies and Percentages 49
3.7 Numbers and Percentages of All Schools Not Meeting/ Meeting Materials Guidelines 50
3.8 Numbers and Percentages of All Schools by Size Not Meeting/Meeting Materials Guidelines 51
3.9 Numbers and Percentages of Span 1 and Span 2 Schools Not Meeting/Meeting Materials Guidelines 53
3.10 Numbers and Percentages of Span 1, K-6 Schools Not Meeting/Meeting Materials Guidelines by Size 54
3.11 Numbers and Percentages of Span 2, 7-12 Schools Not Meeting/Meeting Materials Guidelines by Size 56
3.12 Numbers and Percentages of Span 3, 4, and 5 Schools Not Meeting/Meeting Materials Guidelines 58
3.13 Comparison of K-6 and 7-12 Schools in Not Meeting/ Meeting Two Guidelines 59
3.14 Comparison of All Schools by Span of Percentages of Total Not Meeting/Meeting Materials Criteria with Percentage Each Span Is of Total Number of Schools in Study 60

3.15 Comparison of All Schools by Size of Percentages of Total Not Meeting/Meeting Materials Criteria with Percentage Each Size Is of Total Number of Schools in Study 61
3.16 Comparison of K-6 Schools by Size of Percentages of Total Not Meeting/Meeting Materials Criteria with Percentage Each Size Is of Total Number of K-6 Schools in Study 62
3.17 Comparison of 7-12 Schools by Size of Percentages of Total Not Meeting/Meeting Materials Criteria with Percentage Each Size Is of Total Number of 7-12 Schools in Study 63
3.18 Total Numbers and Averages of Materials by Span 64
3.19 Total Numbers and Averages of Materials for Each Span with Detail by Size 65
3.20 Total Numbers and Averages of Materials by Size 68
3.21 Total Numbers and Averages of Materials for Each Size with Detail by Span 69
3.22 Ratio of Materials to Students and Teachers 73
4 Plan for Progress Phase I Guidelines for Equipment. 75
4.1 Equipment Guidelines, Span 1, K-6 Statistical Measures of Comparison by Size. 76
4.2 Numbers and Percentages of Elementary Schools Meeting 9 or Fewer or 10 or More Elementary Guidelines by Size. 76
4.3 Number of Equipment Guidelines Met, Span 1, K-6 by Numbers and Percentages of Schools and by Cumulative Frequencies and Percentages. 77
4.4 Equipment Guidelines, Span 2, 7-12 Statistical Measures of Comparison by Size. 78
4.5 Numbers and Percentages of Secondary Schools Meeting 9 or Fewer or 10 or More Equipment Guidelines by Size Code 78
4.6 Number of Equipment Guidelines Met, Span 2, 7-12 by Numbers and Percentages of Schools and by Cumulative Frequencies and Percentages 79
4.7 Seven Equipment Categories in Which More Than 75% of Schools Met the Guideline 80
4.8 Numbers and Percentages of All Schools Not Meeting/Meeting Equipment Guidelines. 81
4.9 Numbers and Percentages of All Schools by Size Not Meeting/Meeting Equipment Guidelines. 82
4.10 Equipment Categories in Which K-6 Schools Differed from 7-12 Schools in Meeting Criteria by More Than 20 Percentage Points. 84
4.11 Numbers and Percentages of K-6 and 7-12 Schools Not Meeting/Meeting Equipment Guidelines. 85
4.12 Number and Percentage of K-8, Middle, and K-12 Schools Not Meeting/Meeting Equipment Guidelines. 86
4.13 Comparison of All Schools by Span of Percentages of Total Not Meeting/Meeting Equipment Criteria with Percentage Each Span Is of Total Number of Schools in Study 87

4.14 Comparison of All Schools by Size of Percentages of Total Not Meeting/Meeting Equipment Criteria with Percentage Each Size Is of Total Number of Schools in Study 89
4.15 Differences in Percentage Points Between Lowest and Highest Sizes for Meeting Equipment Guidelines for K-6 Schools 91
4.16 Numbers and Percentages of K-6 Schools by Size Not Meeting/Meeting Equipment Guidelines 92
4.17 Comparison of K-6 Schools by Size of Percentages of Total Not Meeting/Meeting Equipment Criteria with Percentage Each Size Is of Total Number of Schools in Study 94
4.18 Differences in Percentage Points Between Lowest and Highest Sizes for Meeting Equipment Guidelines for 7-12 Schools 96
4.19 Numbers and Percentages of 7-12 Schools by Size Not Meeting/Meeting Equipment Guidelines 97
4.20 Comparison of 7-12 Schools by Size, of Percentages of Total Not Meeting/Meeting Equipment Criteria with Percentage Each Size Is of Total Number of Schools in Study 99
4.21 Total Numbers and Averages of Equipment by Span 100
4.22 Total Numbers and Averages of Equipment for Each Span with Detail by Size 102
4.23 Total Numbers and Averages of Equipment for Each Size . . . 105
4.24 Total Numbers and Averages of Equipment for Each Size with Detail by Span 106
4.25 Ratios of Equipment to Students and Teachers with Selected Equipment Items Per Building Floor 109
5 Formal Seating in Media Center by Span. 111
5.1 Formal Seating in Media Center by Size. 111
5.2 Formal Seating in Media Center by Span with Detail by Size 112
5.3 Formal Seating in Media Center by Size with Detail by Span 113
5.4 Comparison of Average Seating for All Schools with Schools with Seating by Span. 115
5.5 Range and Percentiles for Formal Seating in Media Center for All Schools. 116
5.6 Range and Percentiles for Formal Seating in Media Center for K-6 Schools. 117
5.7 Range and Percentiles for Informal Seating in Media Center for 7-12 Schools 118
5.8 Range and Percentiles for Formal Seating in Media Center for K-8 Schools. 119
5.9 Range and Percentiles for Formal Seating in Media Center for Middle Schools 120
5.10 Range and Percentiles for Formal Seating in Media Center for K-12 Schools 121
5.11 All Seating Available (Formal and Informal) by Span 122
5.12 Range and Percentiles for All Seating in Media Centers for All Schools 123
5.13 Range and Percentiles for All Seating in Media Center for K-6 Schools. 124

5.14 Range and Percentiles for All Seating in Media Center for 7-12 Schools . . . 125
5.15 Range and Percentiles for All Seating in Media Center for K-8 Schools. . . . 126
5.16 Range and Percentiles for All Seating in Media Center for Middle Schools . . . 127
5.17 Range and Percentiles for All Seating in Media Center for K-12 Schools . . . 128
6 Professional Staff (Regardless of Endorsement) for Schools Meeting and Not Meeting Phase I, Plan for Progress in the Media Center Recommendations. . . . 129
6.1 Professional Staff Regardless of Endorsement for Schools Not Meeting Phase I by Span with Detail by Size . . . 130
6.2 Professional Staff Regardless of Endorsement for Schools Meeting Phase I by Span with Detail by Size. . . . 131
6.3 Professional Staff by Endorsement by Span . . . 132
6.4 Range of Certificated Staff (Regardless of Endorsement). . . . 133
6.5 Range of Certificated Staff (Endorsement 34, Approval 86). . . . 134
7 Schools Providing Both Professional (Regardless of Endorsement) and Clerical/Technical Staff for the Library or Media Center . . . 135
7.1 Schools Providing Professional Staff with Approval 86 or Endorsement 34 and Clerical/Technical Staff Span . . . 136
7.2 Schools Providing Professional Staff (Regardless of Endorsement with No Support Staff). . . . 137
7.3 Schools Providing Unsupervised Clerical or Technical Staff in the Library or Media Center. . . . 138
8 Support Staff for Schools Meeting and Not Meeting Phase I, Plan for Progress in the Media Center Guidelines by Span. . . . 139
8.1 Range of Support Staff. . . . 140
9 Expenditures for Materials Collections by Span. . . . 141
9.1 Range of Expenditures by Span . . . 142
9.2 Total Media Center Expenditures by Span . . . 143
9.3 Expenditures for Materials Collection by Span . . . 144
9.4 Expenditures for Materials Collection by Span with Detail by Size . . . 145
9.5 Expenditures for Materials Collection by Size . . . 146
9.6 Expenditures for Materials Collection by Size with Detail by Span . . . 147
9.7 Range of Materials Expenditure Per School by Span . . . 154
9.8 Range of All Expenditures Per Pupil by Span . . . 155
10 Schools Reporting a Physical Space Used as a Library or Media Center . . . 156
10.1 Schools Reporting a Physical Space Used as a Library or Media Center by Span with Detail by Size . . . 157
10.2 Schools Reporting a Physical Space Used as a Library or Media Center by Size with Detail by Span . . . 158

11 Names by Which Physical Space Is Called 160
11.1 Variations Among Names for Physical Space 161
11.2 Name of Space by Span 162
12 Number of Hours the Center Is Open Per Week by Span 163
12.1 Number of Hours Center Is Open Per Week by Size 164
13 Centers Open Before and After School by Span 165
13.1 Centers Open Before and After School by Size 166
14 Kinds of Scheduling Provided in Centers by Span 167
14.1 Kinds of Scheduling Provided in Centers by Size 167
14.2 Grades for Whom Formally Scheduled Instruction Is Provided 168
14.3 Grades for Whom Formally Scheduled Instruction Is Provided Grade Span 1 (K-6) by Size 169
14.4 Grades for Whom Formally Scheduled Instruction Is Provided K-8 by Size 170
15 Schools Reporting That Individual Students May and Are Able to Use Audiovisual Equipment 171
16 Location of Materials in School by Span 172
16.1 Location of Materials by Span with Detail by Size 173
16.2 Location of Materials in Schools by Size 174
16.3 Location of Materials by Size with Detail by Span 175
17 Classification of Print and Audiovisual Materials by Span 176
17.1 Classification by Span with Detail by Size 177
17.2 Classification of Print and Audiovisual Materials by Size 178
17.3 Classification by Size with Detail by Span 179
18 Cataloging of Print and Audiovisual Material by Span . . . 180
18.1 Cataloging by Span with Detail by Size 181
18.2 Cataloging of Print and Audiovisual Material by Size . . . 182
18.3 Cataloging by Size with Detail by Span 183
19 Estimated Percent of Media Centers Using Dewey Decimal Classification and Providing a Card Catalog by Span 184
20 Location of Other Materials 185
21 Media-Related Functions Performed by Various School Personnel in K-6 Schools 186
21.1 Media-Related Functions Performed by Various School Personnel in 7-12 Schools 187
21.2 K-6 Schools Reporting a Higher Percentage of Services Performed by Classroom Teachers Than by Media Specialists 188

CHAPTER I

INTRODUCTION

The DPI/IEMA Survey of the Status of Media Service in the state of Iowa originated on October 17, 1975 during the Iowa Educational Media Association's Fall Conference. At this time, the Professional Development Committee of IEMA sought proposals for professional improvement projects from the elementary section at its meeting. The elementary group responded by forming an Ad Hoc Committee to prepare and present a proposal to survey the status of elementary school media programs in the state. The data collected would then be used to carry on an educational program in the state with the long range goal being to effect legislation requiring media specialists in elementary schools.

The IEMA elementary section's Ad Hoc Committee met in Iowa City on November 7, 1975 to draft a proposal to present to the Professional Development Committee. At that meeting a statement of intent was written, which followed the elementary section's directive to the committee to survey the status of elementary school library/media programs in Iowa with the ultimate goal of educating legislators and changing the laws which govern elementary school library media centers in the state. A budget was also formulated to support the project and a committee member was chosen to act as a liaison between the Ad Hoc survey committee and the Professional Development Committee.

The proposal was presented to the Professional Development Committee at its meeting on November 15, 1975. Three days later, the survey was notified that the Professional Development Committee would recommend acceptance of the proposal to the IEMA Board of Directors. As a result, the survey committee met on November 23, 1975 to draft a more polished proposal and to establish a time line to present to the Board of Directors.

It was at this point that the Ad Hoc Committee decided to seek cooperation with the Iowa Deparmtent of Public Instruction. The nature of the project suggested that the Educational Media Section of DPI might be interested in the proposed survey. Consequently, an invitation was extended for a representative of that section to join the IEMA survey committee. The invitation was accepted and from that time forward the survey was a joint DPI/IEMA project.

The survey proposal was presented to the IEMA Board of Directors (See Appendix A) at their meeting on December 6, 1975 by the Professional Development Committee with the recommendation that the Board accept, support, and fund the project. The proposal described two major objectives:

1. to gather, analyze, and interpret data relative to the status quo of elementary school library media centers and programs.

2. to engage in a program of information dissemination and education to effect legislation.

Also, at the Planning Conference, the IEMA Board of Directors passed the following resolution:

> Be it resolved that IEMA adopt as a long-range goal the strengthening of legislation with regard to building level media services in the state of Iowa in the following specific ways:
>
> a. implementarion of Phase I of Plan for Progress, K-6.[3]
>
> b. implementation of Phase I of Plan for Progess, 7-12.[4]

The survey instrument (See Appendix C) was mailed by DPI on September 30, 1976. The survey committee later met in Des Moines to establish guidelines for editing the survey results (See Appendix D) so that inconsistencies and omissions in the data could be corrected. Actual editing of early returns was also begun. When a committee member reported on survey progress to the IEMA Board of Directors on October 28, 1976, a budget was approved which included a substantial grant from DPI.

During IEMA's Fall Conference, on October 29, 1976, an update of the survey committee's progress was given to the various sections at their meetings, and the committee met with a DPI consultant to discuss computer programming of the survey data. By design of the instrument the data was retrievable by three selectors: by span code (K-6, 7-12, middle school, K-8, and K-12); by seven size codes commonly used by DPI in data analysis, and by Area Education Agency geographical areas.

The committee also continued to work with the editing process, using a call back procedure to clarify data when necessary. Eventually one of the committee members was employed to carry on the edit of the returned survey instruments in cooperation with the DPI Educational Media Section representative. Editing was completed in January, 1977. DPI distributed a preliminary report (See Appendix E.) based on early anaylsis of findings in May, 1977. Table development and preparation of narrative description continued through March, 1978.

---

[3] Op cit

[4] Plan for Progress in the Media Center, 7-12. Des Moines: Iowa Department of Public Instruction, 1970.

CHAPTER 2

DATA ANALYSIS PROCEDURES

When the Survey of the Status of School Media Service was made in the fall semester of 1976, there were 1,792 public schools in Iowa. Reports covering 1,634 schools were received for a 91.18% return. Among these 1,634 schools are 92 whose reports are included with those of other schools in the same system. There were, therefore, 1,542 individual survey instruments available for analysis and included in the computer data base. A total of 158 schools, 3.82%, which did not return reports or returned them too late, are excluded from the study. (See Table 1).

An editing manual (See Appendix D) was prepared, and each instrument was scrutinized in the editing process. Information to supply omissions was elicited and apparent inconsistencies were clarified in a telephone call initiated by a survey instrument editor and directed to the person responsible for completing the instrument.

As the editing process was completed, instruments were passed on to key punchers. A set of cards was punched for each instrument so that raw data and summary information could be retrieved. Some information was displayed in print form, and all data was committed to microfiche. Three categories were established for organizing the retrieved data. Much of the information was retrievable by combining any two of the three categories. One of these categories made the data available by the levels of the schools responding. Five subcategories called Grade Spans were identified and each of the 1,542 schools were assigned to the appropriate span. The Grade Spans are:

SPAN	LEVEL
1	K-6
2	7-12
3	K-8
4	Middle School
5	K-12

It should be noted that the data for Spans 1 and 3 was interpreted in relation to the guidelines in _Plan for Progress, K-6_.[5] Data for Spans 2, 4, and 5 was related to _Plan for Progress, 7-12_.[6] It should be further noted that the schools in Spans 1 and 2 account for the major portion of the data. Of the 1,542 schools in the study, 1,393 or 90.34% are in these two spans. Spans 3, 4, and 5 together include 149 schools or 9.66% of the total number.

---

[5] Op cit

[6] Op cit

A second category had to do with the total enrollment of a school district. The Department of Public Instruction often breaks down data in terms of this size concept. School districts are assigned to one of seven sizes by total enrollment. These seven sizes, with the numerical distribution employed by DPI at the time of the study, were used as a second way to categorize data generated by the study. These seven sizes are:

SIZE	SCHOOL DISTRICT TOTAL ENROLLMENT
1	up to 499
2	500-749
3	750-999
4	1000-1499
5	1500-1999
6	2000-2999
7	3000-over

Table 1.1 shows the distribution of the 1,542 schools in the survey among the spans and the sizes.

A third breakdown of the survey information was by geographical location within the state. The division of the state provided by the fifteen Area Education Agencies was used. This display of the study information was intended primarily for use by the AEA's, and it is not discussed in this report.

In addition to the three categories used in general organization of the data, certain aspects of the information were also generated in county-school district order. The raw data was also used to identify high and low responses, and to compute averages and certain percentile scores.

When the survey instrument was prepared it was considered appropriate to provide an opportunity for respondents to indicate when they found it necessary to estimate numbers of print and audiovisual materials and amounts alloted to budget categories. In preparing tables for the data analysis, actual and estimated numbers and amounts are combined to give a total figure. The estimates are retained in the microfiche prepared from the computer data base for future reference.

One major focus of the data interpretation was the number of schools not meeting and meeting the quantified guidelines set forth in Phase I of Plan for Progress, K-6, and Plan for Progress, 7-12. Detailed interpretation of this data appears in Chapter 3. A second focus of the interpretation was the number of quantified guidelines met by each school. This data was summarized by spans and sizes and is also treated in Chapter 3.

A third major focus of the data interpretation utilized the raw numbers yielded by individual instruments to develop averages, ranks, percentiles, and ratios. When this information is related to a quantified guideline it is included with the discussion of that guideline in Chapter 3. For those questions for which there are no quantified guidelines this information is presented in Chapter 4. Interpretation of data and conclusions appear in Chapter 5.

It should also be noted that schools could supply estimates in the absence of accurate records of the numbers of various types of materials and of amounts of money budgeted for expenditures. Schools providing estimates were separated from those providing actual amounts in the data base. That information is retained in the microfiche records. In the analysis which follows, however, estimated and actual amounts are combined, and are treated as one total.

CHAPTER 3

ANALYSIS OF QUANTIFIED GUIDELINES

Number of Guidelines Met

The Plan for Progress Phase I guidelines used in the study as a basis for comparing the status quo of media centers in Iowa schools provided specified quantities for thirty-one elements at the elementary level and thirty-six at the secondary level. Span 1 (K-6) and Span 3 (K-8) were compared with the elementary guidelines, and Span 2 (7-12), Span 4 (middle schools), and Span 5 (K-12) were compared with the secondary guidelines. The quantified guidelines were distributed among subcategories as follows:

	K-6	7-12
Materials	11	12
Equipment	16	20
Seating	1	1
Personnel	2	2
Budget	1	1
TOTAL	31	36

The numbers of guidelines met were computed for each school and were summarized by span and by size. Since 1,392 of the 1,542 responding schools fell in Spans 1 (K-6) and 2 (7-12), emphasis is placed on display and analysis for schools in these two spans.

The range of the number of the 31 guidelines met by the 843 elementary schools was 1 to 24. There were six schools which met one guideline while two schools met 24. Twenty or more guidelines were met by 38 schools, with 33 of those being in Size 7. The mean number of guidelines met was 12, the median was 12 and the mode was 11. (See Table 2 for details by Size). If the meeting of 12 guidelines is arbitrarily selected as a common measure of central tendancy, the elementary schools as a whole met 38.70% of the guidelines. Table 2.1 derives from a cumulative frequency table the number and percentage of schools meeting 12 or fewer or 13 or more guidelines by size.

This table suggests that in Sizes 1 through 6, over 60% of the schools met 12 or fewer guidelines. In Size 1, 11.49% of the schools met 13 or more guidelines. Size 7 had slightly over half (50.45%) of the schools meeting 13 or more guidelines. The 25th percentile was nine guidelines met and the 75th percentile was 14. Table 2 shows the interquartile ranges by size code. Details of the numbers and percentages of the 31 guidelines met by the elementary schools in each size are provided in Table 2.2.

For the 550 secondary schools in Span 2 the range of guidelines met was 2 to 24. There was one school which met two and there were seven schools which met 24. Twenty or more guidelines were met by 42 schools with 19 of those being in Size 7. The mean number of guidelines met was 13, the median was 13, and the mode was 13. (See Table 2.4 for detail by size). With 13 guidelines met as the common measure of central tendancy, the secondary schools as a whole met 36.11% of their 36 guidelines. Table 2.3 shows the number and percentages of 7-12 shcools meeting 13 or fewer or 14 or more guidelines by size.

This table shows that over half of the schools in Size 1, 2, 3, and 4 met 13 or fewer guidelines. The schools in Size 5 were split evenly, with 50.00% of the schools meeting 13 or fewer guidelines and 50.00% meeting 14 or more of the guidelines. In Size 7, 63.95% of the schools met 14 or more. The 25th percentile for all secondary schools was ten guidelines met, while the 75th percentile was 16. Table 2.4 shows the interquartile ranges by size code. Details for the numbers and percentages of the 36 guidelines met by the secondary schools in each size are displayed in Table 2.5.

Guidelines for Materials

At the elementary school level, Plan for Progress suggests 11 guidelines for media center materials while there are 12 suggested for secondary schools. Ten of the types of materials are listed in common for both levels though the specified quantities may differ. The 11th guideline at the elementary level is for professional magazines. The 11th and 12th guidelines at the secondary level are for transparencies and slides. Table 3 shows the materials by type with the criteria to be met for Phase I.

The range for the number of materials guidelines met at the elementary level was zero to eight. Of the 843 schools, 274 or 32.50% did not meet any of the guidelines. Two schools, both in Size 7, met eight. The mean was two and the median was one. The mode was zero. (Table 3.1 shows details of these measures of central tendancy by size). In each of the sizes over 60% of the schools met two or fewer materials criteria. Overall, 72.24% of elementary schools met two or fewer guidelines. Conversely, 27.76% met three or more. Table 3.2 shows the cumulative percentages of schools meeting zero, zero or one, and zero to two guidelines.

Table 3.3 shows the numbers and cumulative frequencies and percentages of elementary schools meeting zero to eight of their eleven materials guidelines by size.

The range for the number of guidelines met by secondary schools was zero to ten. No guidelines were met by 123 or 22.36% of the schools. One school met ten of the guidelines. The mean number of guidelines met was two, the median was two and the mode was one. Table 3.4 shows details of these measures of central tendency by size. In each of the sizes except 6 and 7 over half the secondary schools met two or fewer guidelines. Overall 62.73% met two or fewer guidelines. Three or more guidelines were met by 37.37%. Table 3.5 shows the percentages of schools meeting zero, zero or one, and zero to two materials criteria.

Table 3.6 shows the numbers, the cumulative frequency, and the cumulative percentages of secondary schools meeting zero to ten of their 12 guidelines by size.

Number of Schools Not Meeting/Meeting Individual Materials Guidelines

A second kind of analysis was performed to show the number of schools which did not meet or did meet each of the quantified materials guidelines. Fewer than one fourth of the total 1,542 schools met most of the individual criteria for materials. In three instances slightly over one fourth of the schools met the criteria. The materials in these three instances were books by volume, student magazines, and professional magazines for teachers. Two of these categories, books by volume and student magazines also showed well over one fourth of the elementary schools meeting the guideline. This was not true for professional magazines. However, almost half of the secondary schools did meet the criteria for professional magazines. In addition, over one fourth of the 7-12 schools met the criterion for newspapers.

Table 3.7 shows the numbers and percentages of all schools not meeting and meeting the individual materials guidelines. Of the 1,542 schools in the study, 1,186 or 76.96% did not meet the quantified guideline for the number of books by title (numbers reported in this context would not include duplicate copies of any title). A total of 355 or 23.04% did meet that guideline. Schools in the study showed the least tendancy to meet the criteria for art prints and sound recordings. Only six schools or 0.39% met the criterion for sound recordings. Ten schools or 0.65% met the guideline for art prints.

Schools showed the strongest tendancy to meet the criteria for student and professional magazines. A total of 450 or 29.18% of the schools met the guideline for student magazines and 426 or 27.63% met the guideline for professional magazines. Some strength was also shown by the percentage of schools meeting the criteria for books by title (23.04%), books by volume (25.83%), and filmstrips (21.98%). Table 3.8 shows details of these data by size.

Table 3.9 reports the numbers and percentages of schools not meeting and meeting the materials criteria broken down by the elementary schools in Span 1 and the secondary schools in Span 2. Elementary schools showed strength in meeting their criterion for books by volume (including titles in duplicate copies) at 30.05%. This compares with 20.91% of secondary schools meeting their criterion. It should be noted, however, that the criterion is higher for secondary schools (See Table 3). A total of 323 or 38.32% of the K-6 schools met their guideline for student magazines while 92 or 16.73% of 7-12 schools met theirs. However, the minimun number of titles for K-6 schools is 15 while the minimum for junior highs is 75, and for high schools it is 100.

Fewer than 10% (9.85%) of the K-6 schools met the study print set guideline. This category of materials is not specified for secondary schools. Other categories with fewer than 10% of K-6 schools meeting the guideline were newspapers (9.13%), sound recordings (0.47%), art prints (0.12%), and professional books (7.59%).

The guideline met by the highest number of 7-12 schools was professional magazines with 254 schools or 46.18%. The second strongest showing was made by newspapers. A total of 162 or 29.45% met that criterion. Categories in which fewer than 10% of the secondary schools met criteria were sound recordings (0.18%), art prints (1.45%), transparencies (6.00%), and slides (5.09%). Table 3.10 shows the number and percentages of the K-6 schools in Span 1 not meeting and meeting the materials guidelines by size. Table 3.11 provides the same kind of information for the 7-12 schools in Span 2.

Table 3.12 shows the numbers and percentages of schools in Spans 3, 4, and 5 not meeting and meeting the guidelines for materials. Span 3 (K-8) schools were expected to meet the quantified criteria for elementary schools while Span 4 (middle schools) and 5 (K-12 schools) were analyzed by the criteria for secondary schools. Since there are a limited number of schools in each of those spans no attempt was made to identify tendencies.

Guidelines for Which One Span Exhibited a Stronger Tendency Than Other Spans

A third kind of analysis was completed to afford a comparison of the percentage of all schools represented by each span with the percentages of all schools not meeting or meeting a materials guidelines. In many cases the three percentages are compatible. For example the 843 elementary schools in Span 1 represented 54.67% of the total 1,542 responding schools. They accounted for 54.38% of the total number of schools not meeting the criterion for books by title and 55.49% of those which did meet that criterion. Similarly, the 550 secondary schools represented 35.67% of the total responders. They accounted for 36.41 % of the schools not meeting the guideline for filmstrips and 33.04% of those which did. (Table 3.14)

The same kind of comparison for newspapers and professional magazines yielded different results. Table 3.13 shows a comparison of the three percentage figures for those two materials for Spans 1 and 2.

The guideline for newspapers is lower for elementary schools than that for secondary schools. Three newspapers are recommended for elementary schools while six are recommended for secondary schools. The elementary schools representing 54.67% of the schools in the study, accounted for 27.80% of the schools meeting the newspaper guideline. The secondary schools, representing 35.67% of the total, accounted for 58.48% of the schools meeting that guideline. The guideline for the number of professional magazines is the same for both levels but results are similar to those for newspapers.

Comparisons by Size

When the number of schools not meeting and meeting the individual materials guidelines were tabulated by size there appeared to be a tendency for Size 7 schools to meet a guideline in larger proportion than they represent in the total number of responding schools. For the ten guidelines in common to all spans the Size 7 schools represented 29.70% of the 1,542 schools in the study. In two instances they accounted for a smaller percentage of the schools meeting a guideline. These were newspapers (18.05%) and globes (26.74%). For the remaining eight guidelines in common the Size 7 schools exceeded their proportion of the total schools meeting the criteria. They exceeded their proportion of 29.70% by more than 10% for books by title (40.00%), books by volume (44.72%), and professional books (52.24%). (Table 3.15) An example of a size exceeding its proportion of the total number of schools in the study by more than 10% was found in one other instance. The Size 6 schools account for 11.41% of the schools in the study, but they account for 66.67% of the schools meeting the criterion for sound recordings. However, the figures for sound recordings and art prints are cited with reservations because only six schools met the criterion for art prints. The criterion for study print sets appears at the elementary level and not at the secondary level. Elementary schools in Size 7 account for 39.50% of the 843 elementary schools. They exceed their proportion in meeting the study print criterion by more than 10% at 54.22%. Details of these data are given for all schools by span in Table 3.14. Details for all schools broken down by size are given in Table 3.15. Table 3.16 shows details by size for Span 1 and Table 3.17 shows details by size for Span 2.

Averages and Ratios For Materials

Tables 3.18 and 3.19 relate to the materials collection broken down by span. Table 3.18 is the summary, 3.19 is the detail. Both give the total and school average for fourteen different kinds of materials. Table 3.20 and 3.21 give the same information by size. The average elementary school (Span 1) has a collection containing 4,886 books, 14 magazines, one newspaper, 339 filmstrips, 137 recordings, 40 sets of study prints, ten globes, 11 art prints, 141 transparencies and 56 slides or slide sets. It also has a professional collection including 62 books and six periodicals (Table 3.18). The average secondary school (Span 2) collection includes 6,821 books, 63 magazines, five newspapers, 358 filmstrips, 179 recordings, 37 sets of study prints, three globes, 28 art prints, 272 transparencies and 380 slides or slide sets. The average secondary school professional collection contains 88 books and 11 magazine titles.

Table 3.22 shows the ratios of materials to student and teacher. For the category "books" there were found to be 14.71 titles and 15.87 volumes per student. In no other category was there found to be as much as one item per student.

Guidelines for Equipment

Phase I of Plan for Progress identifies 16 equipment guidelines for elementary schools and 20 for secondary schools. See Table 4 for details. The 16 guidelines provided for the elementary level also comprise 16 of the 20 guidelines at the secondary level. For nine of the 16 kinds of equipment in common to the two levels, the specified quantities are the same. Different quantities are provided for seven categories for the two levels. Cassette tape recorder/players, wireless microphones, microform readers, and microform reader/printers are the four kinds of equipment found at the secondary level but not at the elementary level.

The range for the 843 elementary schools for number of equipment standarts met was from one to 15, with 12 schools meeting one guideline and seven schools meeting 15. Two of the seven schools meeting 15 guidelines are in Size 1 and five are in Size 7. The mean and the median were both nine. The mode was ten. Table 4.1 shows details by size. A common measure of central tendency may be arbitrarily selected at the meeting of nine guidelines. A total of 445 elementary schools, or 52.79%, met nine or fewer guidelines. Table 4.2 shows the numbers and percentages of schools meeting nine or fewer or ten or more guidelines by size. There is an observable tendency for Size 7 schools to be above the mean and median, and for Size 6 schools to be near the mean and median. Schools in the other five sizes tended to be below the mean and median. The cumulative frequencies and percentages of elementary schools meeting one to 15 of the equipment guidelines are shown in Table 4.3.

For the 550 secondary schools in Span 2, the range of number of equipment guidelines met was one to 16. A total of 20 guidelines is possible. One school met one guideline while two schools met 16. The mean, the median, and the mode were all 9. Table 4.4 shows these measures of central tendancy by size codes. A total of 280, or 50.91% of the schools met nine or fewer of the 20 criteria. Table 4.5 shows the numbers and percentages of schools in each size meeting nine or fewer or ten or more criteria. Secondary schools in Sizes 6 and 7 tend to be above the three measures of central tendancy. Schools in Sizes 3 and 4 tend to be closer to these measures. Schools in Sizes 1, 2, and 5 tend to be below the measures. The spread from the measures of central tendency among sizes is greater at the elementary level than at the secondary level. The spread at the K-6 level is 39.54 percentage points. At the 7-12 level the spread is 23.83 percentages points. Table 4.6 shows the cumulative frequencies and percentages of the secondary schools meeting one to 16 guidelines.

Number of All schools Not Meeting/Meeting Individual Equipment Guidelines

In seven of the equipment categories the 1,542 schools in the study showed considerable strength with over 75% of the schools meeting the guidelines in each category. Table 4.7 shows these categoreis with the numbers and percentages of schools meeting the guidelines.

In two additional categories over 50% of the schools met the guidelines. These are 16mm projectors (63.62%) and overhead projectors (52.79%).

The percentages of schools meeting the guidelines fell below 25% in four equipment categories. These are microprojectors (24.77%), projection carts (1.75%), mounted screens (20.95%), and microform reader/printers (9.94%). The guideline for microform reader/printers appears for Spans 2, 4, and 5 only. In the remaining seven categories the percentages of schools meeting the guidelines fell between 25% and 50%. Table 4.8 shows the numbers and percentages of the 1,542 schools not meeting and meeting the equipment guidelines in detail. Table 4.9 provides the same kind of information for all schools broken down by size.

While a comparison between the percentages of the 843 elementary schools in Span 1 and 550 secondary schools in Span 2 which met the equipment guidelines can be made, Table 4 should be referred to to note differences in quantities suggested in some categories. In both groups over 80% of the schools met the guidelines for filmstrip projectors, record players, copy machines, and duplicating machines. The elementary schools also exceeded 80% in meeting the guideline for listening stations while the secondary schools exceeded that percentage for cassette tape recorder/players. In several equipment categories the differences between the two groups amounted to over 20 percentage points. The differences are presented in Table 4.10. Table 4.11 shows details of the numbers and percentages of K-6 and 7-12 schools not meeting and meeting the guidelines in the equipment categories. The same information for the schools in Span 3 (K-8), Span 4 (middle schools), and Span 5 (K-12) is shown in Table 4.12.

Comparison by Size of All Schools Not Meeting And Meeting Selected Equipment Guidelines

Over 50% of the schools in Sizes 2 through 7 (See Table 1.1 for distribution of the 1,542 schools in the study among the seven sizes) met the guidelines for 16mm projectors. In one instance, Size 7, the number of schools exceed the 75% level. The schools in Size 7 account for 29.70% of the total study population but they account for 35.07% of the schools meeting the guideline for 16mm projectors. In Size 1, 48.02% met the guideline for 16mm projectors. These schools make up 16.34% of the study group but they account for 12.33% of the schools meeting this guideline.

More than 88% of the schools in each of the seven sizes met the guidelines for filmstrip projectors. Distribution of the number of schools meeting the guideline among the sizes was nearly proportionate to their distribution overall among the sizes.

In none of the sizes did as many as 50% of the schools meet the guideline for filmstrip viewers. In only two sizes was the 30% level exceeded. These are Size 6 (31.82%) and Size 7 (41.05%). The Size 7 schools, making up 29.70% of the study population, account for 47.84% of the schools meeting the filmstrip viewer guideline.

The guideline for overhead projectors was met by more than 50% of the schools in Sizes 3, 4, 6, and 7. The schools in Sizes 1, 2, and 5 fell below the 43% level. While the distribution of schools meeting this guideline was somewhat proportionate to their distribution among the sizes, the Size 7 schools accounted for 37.71% of them.

The percentages of schools in the seven sizes meeting the guideline for opaque projectors fell between 15.87% (Size 1) and 45.45% (Size 6). The Size 1 schools (16.34% of the study group) account for 7.84% of the schools meeting the guideline. The Size 6 schools (11.41% of the study group) accounted for 15.69% while the Size 7 schools (29.70% of the study group) account for 37.25% of those schools meeting the guideline.

In three sizes the number of schools meeting the guideline for television monitors exceeded the 50% level. These are Size 5 (51.85%), Size 6 (59.09%), and Size 7 (62.66%). Sizes 3 and 4 schools approached this level with 49.47% and 49.06% respectively meeting the guideline. In Size 2, 42.71%, and in Size 1, 26.19% met the guideline. Distribution in sizes two through six was nearly proportionate. Size 1 schools account for 8.57% and Size 7 schools account for 37.27% of those meeting the criterion.

More than 83% of the schools in each size met the guideline for record players. The percentages fell between 83.42% (Size 2) and 92.79% (Size 7). Distribution was nearly proportionate to the distribution of the schools among the sizes.

The guideline for reel to reel tape recorders was met by more than 68% of the schools in each size. The range of percentages was from 68.65% (Size 1) to 89.08% (Size 7). Distribution was somewhat proprotionate.

The guideline for projection carts suggests that there be a cart for each 16mm projector, slide projector, filmstrip projector, overhead projector, opaque projector, television monitor, microprojector, and record player. Of the 1,542 schools in the study population, 27 or 1.75% met this guideline. The percentages in the seven sizes fell between 0.93% (Size 5) and 3.57% (Size 1). Distribution was only somewhat proportionate, with the nine schools in Size 1 who met the guideline accounting for 33.33% of the total meeting the guideline.

In all sizes over 57% of the schools met the guideline for listening stations. The percentages fell between 57.94% (Size 1) and 85.80% (Size 6). Distribution was somewhat proportionate.

For both copy machines and duplicating machines over 77% of the schools in all sizes met the guidelines. The percentages of schools in each size having copy machines range from 77.27% (Size 6) to 90.39% (Size 7). Percentages of those having duplicating machines range from 84.42% (Size 2) to 94.21% (Size 3). The guideline for both copy machines and duplicating machines is one per center. Of the total population, 250 schools or 16.21%, did not meet the guideline for copy machines and 151 or 9.79% did not meet the guideline for duplicating machines.

The guideline for both microform readers and microform reader/printers is one per center of each. These guidelines are suggested only for Spans 2, 4, and 5. There are 644 schools in the study in those three spans combined. Of these, 282 or 43.79% have microform readers. A total of 64 or 9.94% have reader printers. In two sizes the percentages of schools having readers is at or exceeds 50%. These are Size 6 with 51.61% and Size 7 with 50.00%. Percentages for the other five sizes range from 35.90% (Size 5) to 44.00% (Size 3). Percentages of schools in each size having reader/printers range from 4.76% (Size 1) to 22.58% (Size 6.).

Table 4.13 provides a comparison of the percentages of the totals not meeting and meeting a criterion with the percentages of the total number responding by span. Table 4.14 provides the same kind of information by size.

Percentage of K-6 Schools Not Meeting/Meeting Selected Individual Equipment Guidelines
By Size

The elementary schools in Span 1 made the poorest showing in meeting the guideline for projection carts. In no instance did as many as 5% of the schools in a size meet the guideline.

In the remaining equipment categories the Size 7 schools showed the highest percentage of schools meeting a guideline in eight categories. The Size 6 schools accounted for the highest percentage in three categories. The Size 1 schools had the lowest percentage of schools meeting a guideline in six categories and the Size 2 schools had the lowest percentage in five categories. In four of the 15 categories the differences in percentage points of schools meeting a guideline between the lowest and highest sizes were over 30%. In seven categories the differences were between 20% and 30% and in three categories the differences were between 10% and 20%. In only one category was the difference under 10%. Table 4.15 provides a summary of these data.

Table 4.16 shows the numbers and percentages of the K-6 schools in Span 1 not meeting and meeting the equipment guidelines in detail by size.

A second kind of comparison can be made between the percentage a size is of the total number of K-6 schools in the study and the percentage it represents of the total number of schools not meeting or meeting a guideline for equipment. In only three instances does a size exceed its percentage of the total number of schools in meeting a guideline by more than ten percentage points. All three instances are in the Size 7 schools. They account for 34.50% of the K-6 schools in Span 1. They accounted for 50.55% of the schools meeting the guideline for 16mm projectors, for 52.80% of the schools meeting the guideline for filmstrip viewers, and for 45.74% of the schools meeting the guideline for television monitors.

In contrast, there were five instances in which sizes exceeded their percentages of the total number of schools in the study in not meeting equipment guidelines by more than ten percentage points. Three of these examples are found among the Size 1 schools. They accounted for 10.32% of the K-6 schools in Span 1. They account for 29.41% of the K-6 schools not meeting the guideline for filmstrip projectors; for 24.14% of the schools not meeting the guideline for reel to reel tape recorders, and for 27.12% of the schools not meeting the guideline for listening stations. The remaining two instances were among the Size 2 schools. They make up 9.96% of the K-6 schools in Span 1. They make up 20.69% of the schools not meeting the criterion for reel to reel tape recorders and 31.82% of the schools not meeting the criterion for duplicating machines. Details of this comparison of percentages are given in Table 4.17.

Percentage of 7-12 Schools Not Meeting/Meeting Selected Individual Equipment Guidelines
By Size

As in the case of the K-6 schools, the 550 secondary schools in Span 2 made the poorest showing in meeting the criterion for projection carts. In no instance did as many as 5% of the schools in a size code meet that criterion. In meeting the guideline for record players, six sizes were at the 100% level. In the seventh, Size 1, 97.44% of the schools met the guideline.

For the remaining eighteen equipment guidelines, Size 7 schools showed the highest percentage of schools meeting in six categories, and the Size 6 schools showed the highest percentage in seven categories. Size 1 schools had the lowest percentage of schools meeting in eight categories and Size 5 schools had the lowest in four categories. In one category, television monitors, the difference between the highest and lowest percentages of schools meeting the guideline was 47.60 percentage points. For three categories the differences in percentage points between high and low were between 30 and 40, for three categories the differences were between 20 and 30, for seven categories the differences were between ten and 20, and for four categories the differences were under ten. Table 4.18 provides a summary of these data. Table 4.19 shows the numbers and percentages of the 7-12 schools in Span 1 not meeting and meeting the equipment guidelines in detail by size.

A comparison can also be made between the percentage a size is of the total number of 7-12 schools in the study and the percentage it represents of the total number of schools not meeting or meeting a guideline for equipment. This comparison shows three occurences of a size code exceeding its percentage of the total number of schools in meeting a guideline by more than ten percentage points. The Size 6 schools make up 10.55% of the 7-12 schools in the study. They account for 22.86% of schools meeting the criterion for filmstrip viewers and 20.97% of the schools meeting the criterion for microform reader/printers. The Size 7 schools are 20.18% of the 7-12 schools and they account for 34.71% of the schools meeting the guideline for opaque projectors.

There were also four instances in which size codes exceeded their percentages of the total number of schools in the study in not meeting equipment guidelines by more than ten percentage points. The Size 1 schools account for 21.27% of the 7-12 schools. They account for 42.61% of the schools not meeting the criterion for 16mm projectors, for 40.63% of those not meeting the criterion for filmstrip projectors, and for 32.51% of those not meeting the criterion for television monitors. The Size 2 schools make up 15.27% of the 7-12 schools. They make up 28.21% of the schools not meeting the criterion for cassette tape recorder/players. Details of this comparison of percentages are given in Table 4.20.

Averages and Ratios For Equipment

Tables 4.21 through 4.25 cover equipment holdings. Twenty-five kinds of equipment are included. Tables 4.21 and 4.22 give totals and school averages by span. Table 4.21 is the summary, table 4.22 adds the size breakdown under each span. Tables 4.23 and 4.24 provide the same information with size as the basic division.

Table 4.25 gives the ratios of equipment items to students, to teachers, and where pertinent, to floors of the building.

The average secondary school in 1975-76 had 5.99 film projectors, 2.21 slide projectors, 7.74 filmstrip projectors, 13.92 overheads, 1.86 opaque projectors, 2.50 TV monitors, 8.22 record players, 21.87 tape recorders or players, and 1.35 video tape recorders. (Table 4.21)

Because of the relative number of students it is not surprising to discover that in most instances the secondary school average exceeds the elementary one. However, elementary schools have more filmstrip viewers - 7.27 to 4.70, record players - 10.44 to 8.22, and listening stations - 8.93 to 3.95. The number of TV monitors is almost the same in the two spans.

Number of Students Who Can Be Seated in The Media Center on Chairs and/or At Tables, Desks, or Carrels

The Phase I guideline of Plan for Progess (both K-6 and 7-12) for formal seating in the media center states that there should be "space to seat the largest class plus ten." Table 5 displays the data reported regarding this guideline by span. Table 5.1 reports the same data arranged by size. Tables 5.2 and 5.3 offer details of this information. Table 5.2 shows detail by size within each span. Table 5.3 shows detail by span within each size. In comparing the data reported by the 1,542 schools regarding the size of their largest class and the number of formal seats available in the media center, 876 schools (or 56.81%) did not meet the guideline, and 666 schools (or 43.19%) did not meet the guideline.

A total of 624 or 74.02% of the Span 1 (K-6) schools did not meet the guideline, and 173 or 31.45% of the Span 2 (7-12) schools did not meet the guideline. The Span 1 (K-6) schools which did not meet the guideline had formal seats available for 7.5% of their students, whereas the Span 1 (K-6) schools which did meet the guideline had formal seats available for 14.30% of their students. The Span 2 (7-12) schools which did not meet the guideline had seats for 10.55% of their students, and the Span 2 (7-12) schools which did meet the guideline had seats available for 14.23% of their students. All Span 1 (K-6) schools had an average of 27.78 seats or formal seating for 9.81% of their students. All Span 2 (7-12) schools had an average of 62.76 seats or formal seating for 13.54% of their students.

Table 5.4 indicates that 148 of the schools reported no formal seating, with 125 of those being Span 1 (K-6) schools. Since 115 of the Span 1 (K-6) schools reported no space designated as a media center (See Table 10), it appears that ten Span 1 (K-6) schools had a space designated as a media center with no formal seating available.

Seven schools reported formal seating for over 200 students, with 250 as the highest reported. All seven of these schools were Span 2 (7-12) schools. Seventeen schools reported formal seating for 150 to 199 students, with 16 of these schools being Span 2 (7-12) schools and one being a Span 4 (middle school) school.

Tables 5.5 through 5.10 provide frequency distributions of the ranges of seating available and the number of seats at the tenth, twenty-fifth, fiftieth, seventy-fifth and nintieth percentiles. Table 5.5 gives this information for all schools in the survey. Table 5.6 shows the range and percentiles for Span 1 (K-6), Table 5.7 for Span 2 (7-12), Table 5.8 for Span 3 (K-8), Table 5.9 for Span 4 (middle schools), and Table 5.10 for Span 5 (K-12).

The Plans for Progress (both K-6 and 7-12) also suggest that in addition to formal seating, a media center should be able to accomodate additional students for activities such as browsing at the shelves or for storytelling sessions while seated on the floor. No quantitive standard is stated in terms of guidelines for informal seating in the media center. Table 5.11 indicates the data reported regarding the combination of formal seating (See Table 5.4) available with the numbers of additional students who can be informally accommodated when the media center is full but still functioning effectively.

In comparing these data for all seating with the formal seating, data reported in Table 5.11, all schools which have seating available reported space to accomodate an average of 65.89 students or 20.56 students in addition to the 45.03 students who can be seated formally. Span 1 (K-6) schools reported space for 55.96 students or 23.14 more than could be seated formally. Span 2 (7-12) schools reported that an average of 79.19 students could be accomodated when the media center was full, an increase of 15.50 over the average number of formal seats.

Twenty-five schools reported formal and informal seating for more than 200 students. Eight of these schools were Span 1 (K-6) schools, 16 were in Span 2 (7-12), and on was in Span 4 (middle schools). One Span 1 school reported total seating for 550 students, and two Span 2 (7-12) schools reported total seating for over 300 students.

Tables 5.12 through 5.17 display frequency distributions and the number of combined formal and informal seats at the tenth, twenty-fifth, fiftieth, seventy-fifth, and nintieth percentiles. Table 5.12 provides this information for all schools in the study. Table 5.13 gives this data for Span 1 (K-6), Table 5.14 for Span 2 (7-12), Table 5.15 for Span 3 (K-8), Table 5.16 for Span 4 (middle schools) and Table 5.17 for Span 5 (K-12).

Professional and Support Staff In Media Centers

Tables 6-8 cover staff reported on the survey. Tables 6 through 6.5 relate to professional staff reported. Table 6 summarizes professional staff reported regardless of endorsement, separating schools meeting and not meeting Phase I of Plan for Progress.

703 of the K-6 schools do not meet Phase I. This average is .195 professional per school, a ratio of one professional for each 1,376 students. One hundred and forty schools, which were meeting Phase I according to this count, had an average of 1.089 professionals per school with a ratio of one to 331.

The 7-12 schools not meeting Phase I averaged .793 professional per school, a ratio of one for every 666 students. Those meeting Phase I averaged 1.159 professionals per school. The ratio of one to 331 was the same as K-6. Forty-five point one percent of the secondary schools and 16.6 of the elementary schools met or exceeded Phase I if all professional personnel regardless of certification are counted. (Tabe 6.3)

Table 6 also covers K-8 schools (Span 3), middle schools (Span 4) and K-12 schools (Span 5). Tables 6.1 and 6.2 expand Table 6, breaking the spans down by the district size groups used by the Department of Public Instruction.

Table 6.3 considers only personnel with endorsement 34, School Librarian, which requires at least a 30 semester hour major in library science, or with approval 86, Teacher Librarian, which requires at least a 20 semester hour minor in library science. These are the legally acceptable preparation levels for building level librarians or media specialists. Average professionals per school in schools reporting professional staff are also included in this table.

Comparison of Table 6.3 with Table 6 shows an increase in professional staff/student ratio to 1-1,504 in Span 1 and one to 744 in Span 2 for schools not meeting the standards. The average per school in those categories is .178 for K-6 and .711 for 7-12.

This table (6.3) may give a more realistic set of figures in the adjusted averages per school. Using only the schools reporting professional staff, 517 out of 843 for K-6 schools whether or not they meet the standards, the average FTE professional staff per school is .560. The comparable number for 7-12 is .982.

Another way of examining staff is to look at ranges and percentiles. Table 6.4 takes this view. The number of professional staff members is shown in descending order for each of the five spans and for the total state. Ninetieth, 75th, 50th, 25th and 10th percentiles are given for each span. Again considering total staff, the most frequent staff size is 1.0, the next most frequent is 0.0. Span 1 accounts for most of the schools with no professional. The percentiles are shown both with and without the schools having no professional staff. This makes a marked difference in Span 1 where many schools lack staff. Table 6.5 is similar to 6.4 except that only library endorsements or approvals are included. Table 6.5 also provides the percentile scores. Comparison of the two tables shows that in addition to 364 schools which have no professional staff, there are 73 schools which have professional staff members without the minimum certification standards, functioning as the only professional staff members in a media center or library.

Tables 7 through 7.3 deal with the relationship between professional and support staff. Table 7 covers schools providing both professional staff regardless of endorsement and support staff. Average FTE per school and ratio of professional to support staff is given. Table 7.1 makes a similar comparison using only staff meeting legal preparation requirements. Both tables give the percent of reporting schools included in each category. Table 7.1 has in addition the percent of media centers or libraries included.

Table 7.2 covers schools reporting professional staff regardless of endorsement, with no support staff. The number and percentage of schools and the percentage of centers is given for each span in addition to the total and average staff. Table 7.3 covers unsupervised support staff and gives the same kind of information provided in 7.2.

Seven hundred and fifty-one or 48.7% of the schools provide both professional and support staff with an average of .77 FTE professional, .90 FTE clerical staff (Table 7). If only approval as teacher librarian or endorsement as school librarian is considered the number of schools falls to 702 and average staff to .71 FTE professional, .89 FTE clerical. (Table 7.1) There is not as much difference between the elementary and secondary schools providing both professional and clerical services as might be expected. For example, in Table 7.1, 49.59% of the Span 1 centers provide both clerical and professional staff while 52.58% of the Span 2 schools do so.

The difference between Spans 1 and 2 is much more marked where schools providing professional staff with no support staff are considered.

In this category 16.74% of the elementary and 43.98% of the secondary centers report professional staff (7.2). The amount of professional staff per building seems always to favor secondary schools. Table 7 shows relative averages of .56 elementary and 1.06 secondary. Table 7.1 has .53 and .95; Table 7.2, .57 and .89.

Over a fourth of the elementary centers have support staff working alone. Approximately 1.5% of the secondary centers have similar staffing patterns (Table 7.3).

Tables 8 through 8.2 consider support staff alone. The average support staff for all reporting schools (Table 8) was .541 per school. Schools meeting the Phase I guidelines averaged 1.197 per school. A smaller percentage of secondary schools met the guidelines than did any other category except K-12. The support staff guideline for secondary schools was two for each professional. The guideline for elementary schools was one for one. Spans 2, 4, and 5 were measured against the secondary school guideline, span 1 and 3, against the elementary school guideline.

The student/support staff ratio was also somewhat less favorable in Span 1 than in Span 2. The ratio for secondary schools was 1-773, that for elementary schools was 1-540.

The incidence of schools with no professional staff has been covered in previous tables. Table 8.1 covers the range of support staff. Those with no support staff number 256 or 30% in Span 1 and 246 or 45% in Span 2 with a total in all five spans of 583. Zero is the most frequent number of support staff members. One, with 370, is the next most frequent number and .5 FTE is third with 167. The range goes up to six in a secondary school (Table 8.1).

Fifty percent of all reporting schools have at least a half time clerk or technician. If schools providing no support staff are omitted the 50th percentile is a full time support staff member and 75% have a halftime person or more (Table 8.1).

Media Center Expenditures

Tables 9 through 9.8 deal with expenditures. While schools were asked to indicate when it was necessary to estimate an expenditure in any category, actual and estimated expenditures are combined to provide totals in several tables.

Table 9 shows actual and estimated expenditures for print and audiovisual materials. It is separated into schools not meeting the Plan for Progress Phase I criterion for budget for materials ($50.00 per pupil) and those meeting that criterion. Two schools reported meeting the criterion, one with actual amount spent and one estimated. The remaining 1,540 schools in the study did not meet the criterion. Table 9 also includes what it would cost to reach Phase I for expenditures and the percentage of present achievement of that criterion. Average expenditures per student and per school at the time of the study are also given. Table 9.1 provides a summary of the ranges of expenditures by span.

Table 9.2 gives the print, non print, equipment, supplies, and total expenditures by span. Averages per student and per school based on the total expenditures are also provided. Table 9.3 provides similar information with average expenditures per student and per school displayed for the four categories, print, nonprint, equipment, and supplies. Table 9.4 displays greater detail of the same information by including the seven sizes for each span. Table 9.5 is similar to Table 9.3 except by size. Table 9.6 is similar to Table 9.4 but is arranged by size with detail by span for each size.

Tables 9.7 and 9.8 show ranges and amounts of expenditures for the tenth, twenty-fifth, fiftieth, seventy-fifth and nintieth percentiles. Table 9.7 displays this information for print and nonprint materials by span per school. The range for print materials was from zero to $19,905. The range for nonprint materials was from zero to $8,470. Table 9.8 provides ranges and percentiles by student for all four categories of expenditures by span.

CHAPTER 4

QUESTIONS IMPLIED BY PLANS FOR PROGRESS FOR WHICH NO QUANTIFIED GUIDELINES ARE PROVIDED

Physical Space Used as Library Or Media Center

The Plans for Progress (both K-6 and 7-12) are based on the premise that each school will have a physical space which is used as a library or media center. Table 10 indicates that 90.99% of the responding schools had a physical space used as a library or media center, and 9.01% or 139 of the responding schools reported no center. Of these 139 schools, 115 or 82.73% were Span 1 (K-6) schools, and 12 or 8.63% were Span 3 (K-8) schools. Therefore, 91.36% of the schools reporting no center served students in the K-6 or K-8 spans. Eight or 5.7% of the schools reporting no center were in Span 2 (7-12). Although 90.99% of all of the responding schools reported a physical space used as a library or media center, only 86.36% of the Span 1 (K-6) schools and 78.18 of the Span 3 (K-8) schools reported such a space. Ninty-eight point seventy-three percent of the Span 2 (7-12) schools reported a space designated as a library or media center.

Table 10.1 breaks the information about physical space used as a library or media center down to sizes within each span. Table 10.2 reverses the arrangement, showing each size broken down by span.

Name of Space

The Plans for Progress (K-6 and 7-12) provide guidelines for schools to make the transition from traditional libraries to a media center approach with a broad range of materials and services. These documents, however, do not stipulate a name for the physical space in which and from which the school's media services are provided.

As is evident from the data displayed in Table 11, a majority of the schools (938 schools or 67.39%) have designated the space with a library-related name. Seven hundred and ninty-five or 57.11% of these schools use the name "Library", and 219 or 15.73% use the name "Media Center". Table 11.1 provides a list of variations under each of the generic names identified in Table 11.

Table 11.2 provides a breakdown of names allotted to physical space by span. It shows that 73.33% of the secondary schools in Span 2 tend to prefer library-related names compared with 61.51% of the elementary schools in Span 1. However, more elementary schools (25.94%) use media center-related names with variations than do secondary schools (16.85%). The category providing a combination of library and media center in a name showed 5.86% of the elementary schools and 6.30% of the secondary schools using a combination name.

Hours Media Center is Open In a Typical Week

The Plan for Progress (K-6 and 7-12) do not stipulate a standard for the number of hours per week that the media center should be open. However, the greater the number of hours a center is open could relate directly to the greater accessibility of media center resources and services for students and teachers. Table 12 displays data related to hours media centers are open by span code.

Twenty-one point nine percent of the Span 1 (K-6) schools and 30.9% of the Span 3 (K-8) schools reported either no centers or centers which were open fewer than 20 hours per week. Four point four percent of the Span 2 (7-12) schools reported either no centers or centers which were open fewer than 20 hours per week.

Six hundred and thirteen or 71.7% of the Span 1 (K-6) schools reported centers which were open 30 or more hours per week. Of those 475 or 56.3% of the Span 1 (K-6) centers were open 35 or more hours per week. Five hundred and thirteen Span 2 (7-12) schools (93.2% of the total) reported centers which were open 30 or more hours per week, and of those 497 schools (90.4%) reported centers which were open 35 or more hours per week.

Three schools of the total reported centers open 70 or more hours per week, with the highest being 83 hours. These may be schools reporting combined hours for two centers in the building. The most frequently reported figure was 40 hours per week (reported by 257 Span 1 schools, 283 Span 2 schools, 20 Span 3 schools, 32 Span 4 schools, and 17 Span 5 schools: 509 schools or 39.5% of the total).

Table 12.1 shows the number of hours centers are open per week by size. The average for the 1,400 schools reporting hours a center is open is 35.5. There was little variation among the sizes. The averages ranged from 34.0 (Size 1) to 37.2 (Size 4).

Media Center Accessibility to Students Before and After the School Day

Another method of providing access to media center resources and services is to open the media center for student use before the school day begins and after the school day ends. Table 13 displays data related to the numbers of centers which reported being open to student use for up to one half hour before the school day begins and for up to one half hour after the school day ends.

Of all schools with centers, 72.7% reported being open for student use before the school day begins, and 73.8% reported being open after the school day ends. In Span 2 (7-12) schools with centers, 86.2% were open before school, and 62.2% of the Span 1 (K-6) schools were open before school. Data for Span 2 (7-12) schools with centers reported 83.6% being ipen after the school day for student use, and 65.0% of the Span 1 (K-6) schools with centers were open after the school day. Schools with centers in Span 4 (middle schools) reported 87.9% being open up to one half hour after the school day for student use.

Table 13.1 shows the centers which are open before and after school by size. The lowest percentage of centers open before school was in Size 1 (60.7%) and the highest percentage was in Size 3 (82.6%). The lowest percentage of centers open after school was in Size 1 (66.7%) and the highest in Size 5 (82.2%).

Media Center Scheduling

There are a variety of scheduling methods for providing students access to a school media center: (1) a formal schedule by which classroom groups regularly come to the media center for classes taught by the media specialist; (2) an informal schedule arranged between the teacher and the media specialist for classroom groups to come to the media center; (3) the possibility for small groups of students to go to the media center on an individual basis as the teacher desires; and (4) the possibility for individual students to go to the media center with teacher permission at any hour of the school day. Table 14 displays the data by span, and Table 14.1 displays the data by size reported by the schools regarding scheduling.

Formal Schedule

Of the schools which had a media center 687 or 44.6% reported that they provided a formal schedule by which classroom groups regularly went to the media center for classes taught by the media specialist. Sixty-eight point seven percent of the Span 1 (K-6) centers and 74.4% of the Span 3 (K-8) centers reported this method of scheduling. Only 20.7% of the Span 2 (7-12) centers reported a formal schedule of classes taught by the media specialist. Table 14.1 indicates that the percentage of centers which provide formal scheduling increases with each larger size code: Size 1, 28.6%; Size 2, 38.3%; Size 3, 40.1%; Size 4, 43.2%; Size 5, 46.7%; Size 6, 52.2% and Size 7, 68.3%.

Table 14.2 provides a breakdown of grades receiving formal instruction among the 687 schools reporting that method of scheduling. The number of schools increases from pre-kindergarten to third grade and then diminishes through twelfth grade. The numbers decrease sharply after sixth grade. Table 14.3 gives detail by size for the elementary schools in Span 1 offering formal instruction. The numbers increase up to third grade and diminish through sixth grade. The table shows 92.7% of the schools who offer formal instruction providing it for third graders. Table 14.4 provides similar information for the K-8 schools in Span 3. For these schools the number offering formal instruction peaks at fourth grade at 93.1%.

Informal Classroom Groups And Small Groups

Table 14 also displays data related to the informal scheduling of classroom groups into the media center by arrangement between the teacher and the media specialist. Of all schools with centers 86.3% reported this method of scheduling. Of the Span 2 (7-12) centers 92.4% used this method, and 80.6% of the Span 1 (K-6) schools used informal scheduling of classroom groups. A more prevalent method of scheduling was reported as allowing small groups of students to go to the media center on an individual basis as the teacher desired. Ninety-five point seven percent of all centers, 93.1% of Span 1 (K-6) centers, and 98.2% of Span 2 (7-12) schools with centers reported this method of scheduling. All (100%) of Span 3 (K-8), Span 4 (middle school range), and Span 5 (K-12) schools with centers reported using this method of scheduling.

Individual Students

Table 14 also displays data related to the possibility for individual students to go to the media center with teacher permission at any hour of the school day. Of all schools with centers 91.4% provided this method of scheduling for their students. A breakdown by span shows 96.9% of the Span 5 (K-12) schools with centers, 95.9% of the Span 2 (7-12) schools with centers, 91.4% of the Span 4 (middle school) schools with centers, 88.0% of the Span 1 (K-6) schools with centers, and 86.2% of the Span 3 (K-8) schools with centers providing for individual students to go to the media center at any hour of the day with permission from the classroom teachers.

Individual Use of Audiovisual Equipment

Table 15 relates to the schools reporting on whether individual students are permitted to use and are capable of using audiovisual equipment. The percentage of schools answering "yes" ranges from 80% in Span 3 to 91.18% in Span 5. The percentage for all spans was 88.65%.

Location of Print and Audiovisual Within the School

Tables 16 through 16.3 deal with the location of print and nonprint (audiovisual) materials within the school. Table 16 gives the number of schools and the percentage placing most materials in the classroom, media center and other location by two categoires. Table 16.1 simply expands Table 16 by giving the totals for each school district size under the grade Span. Table 16.2 and 16.3 reverse the tables considering size first and grade span second.

Six hundred and eighty-one or 80.78% of the elementary schools in Span 1 reported that the major portion of these print materials are in media centers or libraries. A higher percentage, 94.91% (522 schools), of the secondary schools in Span 2 reported centralizing their print media. Four hundred and seventy-three, or 56.11% of the elementary schools have placed the major portion of their audiovisual materials in the media center. A slightly smaller percentage, 54.18% (298 schools), of the secondary schools has done so. At the elemtary level the percentages by size of schools centralizing their print ranged from 68.97% (Size 1) to 91.89% (Size 7). At the secondary level the range of percentages by from 88.89% (Size 1) to 100.00% (Size 6). There was a greater spread between lowest and highest percentages of schools placing their audiovisual materials in the media center or library than in the percentages for print media. The percentages at the elementary level ranged from 25.29% (Size 4) to 78.38% (Size 7). At the secondary level the Size 1 schools reported the lowest percentage (40.17%) and the Size 7 schools reported the highest (72.97%). (See Table 16.1)

When all the spans are combined by sizes there is not much variation in the percentages of schools centralizing their print media. (See Table 16.2, 16.3) For audiovisual materials the percentages for Sizes 1 through 6 fell between 40.0% and 50.0%. For Size 7 schools the percentage was 76.42%.

Classification and Cataloging of Print and Audiovisual Materials

Tables 17-19 consider classification and cataloging for books and audiovisual materials. Table 17 gives the percent of schools not classifying materials, using Dewey, or using another classification by type of material. Table 17.1 is similar except that it gives the totals for the seven size categories for each Span. It also separates accession records from other classifications. Tables 17.2 and 17.3 follow the patterns of Table 17 and 17.1 except that 17.2 summarizes by size and 17.3 provides the breakdown by size then grade span.

Table 18 considers cataloging or lack of it by print and nonprint for each grade span. Dictionary catalogs, other card catalogs, printed lists, other types of catalogs and uncataloged materials are covered. Table 18.1 expands 18 by including size breakdown under each grade span. Tables 18.2 and 18.3 reverse the process, using school system size as the major consideration.

Table 19 compares the number of libraries or media centers with the number and percentages of schools using Dewey Classification and those using a card catalog.

Table 17 shows that 1,395 (90.47%) of the 1,542 schools in the study use the Dewey Classification system to classify print media. An additional 31 (3.89%) use some other system while 90 (5.84%) leave theirs unclassed. seventy-eight of the unclassed collections are in the elementary schools in Span 1. In contrast 621 (40.27%) classify audiovisual materials by Dewey while 424 (27.50%) use some other system. Accession numbers are used by 268 of the 424 schools using some other system than Dewey. Table 17.1 shows some differences among the sizes in percentages of schools classifying print and audiovisual materials by Dewey. The elementary schools in Size 3 reported the lowest percentage for print media, 70.73% while the Size 7 schools reported the highest percentage, 97.60%. The Size 1 schools reported the lowest percentage for audiovisual materials, 17.40%, and the Size 7 schools reported the highest percentage, 62.46%. Most of the secondary schools in Span 2 reported classifying their print materials by Dewey. The percentages ranged from 95.73% (Size 1) to 100.00% (Size 6). Percentages classifying their audiovidual materials by Dewey are much smaller. The lowest was reported by Size 1 (23.08%) and the largest by Size 7 (63.06%).

When all the spans are combined by Size in Table 17.2, the Size 5 schools are shown with the lowest percentage (81.48%) classifying print media by Dewey and the Size 7 schools are shown with the highest percentage (98.03%). The percentages of schools classifying audiovisual media by Dewey are lower and more widely spread. The lowest percentage (20.24%) was found in Size 1, and the highest (62.45%) was found in Size 7.

The number of schools providing a card catalog for their print media as shown by Table 18 is close to those classifying it by the Dewey Decimal system. A total of 1,395 schools reported classifying by Dewey and 1,385 provide a card catalog. Of these 1,385, 1,312 (85.08%) file cards in a dictionary catalog (author, title and subject cards in one alphabet) while 73 (4.73%) use some other type of card catalog. Print materials are uncataloged in 87 schools (5.64%), are maintained in a printed list in 27 schools (1.75%), or are cataloged in some other way in 42 schools (2.72%).

More schools use a card catalog for their audiovisual materials than classify it by Dewey. A total of 749 (48.58%) provide some kind of card catalog as compared with 621 (40.27%) who classify by Dewey. Of the 749, 665 (43.13%) provide a dictionary catalog.

Table 18.1 shows that the elementary schools in Span 1 reported that 79.83% provide a dictionary catalog for print and 40.93% provide one for audiovisual materials. Lowest percentage (57.11%) for print was found in Size 5 and the highest (95.80%) was in Size 7. Lowest percentage (20.24%) for audiovisual materials was in Size 2 and the highest was in Size 7 (66.07%). Percentages reported by the secondary schools in Span 2 are generally higher than those reported by Span 1. The spread is narrower for print media and similar for audiovisual media. Among the Span 2 schools 93.64% reported providing a dictionary catalog for print media. For audiovisual media it was 49.45%. Lowest percentage for print media was 86.32% (Size 1) and highest was 97.30% (Size 7). The same size reported the lowest and highest percentages for audiovisual media. Size 1 had 29.91% and Size 7 had 75.68%.

According to Table 19 nearly all centers use the Dewey Decimal Classification system for books and over 93% use dictionary catalogs, that is catalogs which interfile author, title and subject cards. When the over 5% using other forms of card catalogs are added, this is close to the number using Dewey. About 7% more schools index their audiovisual materials in a card catalog than those using Dewey, but use of Dewey is close to 45%.

Availability of Materials and Equipment Not Included in Quantified Guielines of Plan for Progress Phase I

Respondents were asked in Question 26 whether materials such as film loops and models and equipment such as a dry mount press or video camera were available in their schools, at the school district level, or through their Area Education Agencies. The thrust of the question was to discover where schools could go for such materials and equipment, and how well school media or library personnel knew where to go. Table 20 deals only with where such materials and equipment are available as reported by the respondents to the questionnaire.

Media-Related Services Perfomed by Media Staff And Other School Personnel

A number of services and tasks performed by personnel in school library media centers are identified in narrative portions of Plan for Progress K-6 and Plan for Progress 7-12. Question 27 of the survey instrument listed 23 of these services. Respondents were asked to indicate who performed the service "consistently" and "regularly." Columns headed by six titles of adults who might perform the service were provided for the respondents to check. Three of the titles, media specialist, media aide, and media technician, apply to persons who are considered part of school library media center personnel. The other three titles apply to persons who are not media center personnel but may be found performing those services at the building level. These three titles are principal, school secretary, and classroom teacher. It should be noted that all of the 27 services are appropriately performed by media personnel. Some are equally appropriate for other personnel while some are more clearly media related. A column headed "Other" was also provided. Checks could be made to indicate that more than on person performs a service. Table 21 lists the 23 tasks and shows the numbers and percentages of schools reporting persons holding each title performing each service for the 843 K-6 schools in the study. Table 21.1 gives the same information for the 550 7-12 schools.

In all but one instance among the K-6 schools all of the 23 services were performed in some school by a person holding one of the six titles and by "others." In the case of the single exception no media technicians were reported as developing bibliographies for curriculum units. In contrast, there were four such exceptions among the secondary schools. No 7-12 schools reported that the school secretary performed the four services of teaching students to use encyclopedia, teaching the use of references other than encyclopedia, teaching use of the card catalog, and developing bibliographies for curriculum units. In every instance, a higher percentage of the 7-12 schools reported a media specialist performing each of the services than the elementary schools reported. This was also true for the media technician. In every instance, a higher percentage of the K-6 schools reported a media aide performing each of the services than the secondary schools reported. This was also true for the elementary school secretary and principal with one exception. In both spans 00.36% of the schools reported principals teaching references other than encyclopedia. There was a general tendancy for more of the tasks to be performed by classroom teachers at the elementary level than at the secondary level. In two instances, teaching teachers to use equipment and selecting non-print media for purchase, there was less than on percentage point difference between the two spans. In four instances a higher percentage of 7-12 schools than of K-6 schools reported a service performed by classroom teachers. These were teaching students the use of the card catalog, ordering new media for preview, providing blank tape for recording, and providing projector lamp replacements. A higher percentage of K-6 schools than of 7-12 schools reported classroom teachers performing the remaining 17 services.

Who Performs Media Services at the Elementary School Level

At least 21% of the 843 elementary schools in Span 1 reported that media specialists perform each of the services listed in Question 27. Details are reported in Table 21. The highest percentages reported were for identifying material for withdrawal (58.24%) and selecting print media for purchase (57.65%). In three other instances, over 50% of the K-6 schools reported a media specialist performing the task. These were teaching students use of the card catalog (52.31%), calling teacher's attention to newly acquired media (54.33%), and helping teachers integrate media with instructional activities (50.53%). Lowest percentages of schools reporting media specialist performing a task were for scheduling equipment to be used by teachers (21.83%) and providing projector lamp replacements (24.44%).

In several instances, a higher percentage of K-6 schools reported classroom teachers performing media-related tasks than media specialists. Table 21.2 shows these instances.

More than 50% of the K-6 schools reported that media aides performed three tasks generally considered to be nonprofessional in nature. These are checking out materials to students (61.09%), inventorying media (52.55%), and repairing books (58.72%). At least 10% of the K-6 schools reported media aides performing several services for students and teachers which are generally considered to be the responsibility of the certificated media specialist. There is no way to tell if these services were performed by aides in the presence of or under the supervision of certificated personnel. For example, 23.37% of the schools reported media aides teaching the use of the card catalog and 26.93% reported aides offering media guidance to students. Orientation of teachers to available media and media services was reported as being performed by media aides by 25.62% of the schools, and helping teachers integrate media with their instructional activities was reported by 18.62% of the schools as being performed by media aides. Less than 4% of the K-6 schools reported that any of the services were performed by a media technician.

In none of the categories did the K-6 schools report as many as 50% of the principals performing the services. In three categories between 40% and 50% of the schools reported that principals performed services usually attributed to media professionals. These services are selecting nonprint media for purchase (42.94%), orienting new teachers to available media and media services (43.06%), and ordering media for preview (41.76%). Highest percentages of schools reported school secretaries performing the services of providing projector lamp replacements (22.78%), inventorying media equipment (20.40%), obtaining media from the AEAMC (17.56%), and providing blank tape for recording (17.44%). Numbers and percentages for all services and the people performing them are presented in Table 21.

Who Performs Media Services at The Secondary School Level

For the 550 secondary schools in Span 2, the range of percentages of schools reporting a service in Question 27 performed by a media specialist was from 38.36% to 94.91%. Table 21.1 shows numbers and percentages in detail. For 16 of the 27 services the percentages were over 70%. For three of these 16 services the percentages were over 90%. These services are selecting print media for purchase (94.91%), identifying materials for withdrawal (93.81%), and calling teacher's attention to newly acquired media (92.55%). For six services the percentages of 7-12 schools reporting performance by a media specialist fell between 70% and 80%. The two lowest percentages of schools reporting services performed by a media specialist were for providing projector lamp replacements (38.36%) and serving as a member of a curriculum committee (41.27%).

The highest percentages of schools reporting a service performed by a media aide were checking materials out to students for their use (47.82%) and repairing books (36.00%). More than 20% of the schools reported media aides performing three other tasks generally considered to be nonprofessional in nature. These tasks are inventorying media (32.91%), scheduling equipment to be used by teachers (27.45%) and inventorying equipment (23.82%). The lowest percentage of schools reporting services performed by a media aide was for serving as a member of a curriculum committee (00.91%).

No services listed in Question 27 were reported by more than 8% of the 7-12 schools as being performed by a media technician. For six services the percentages fell between 5% and 8%. These six services are teaching teachers to use equipment (8.00%), inventorying equipment (7.82%), providing projector lamp replacements (7.82%), teaching students to use equipment (6.73%), providing blank tapes for recording (6.73%), and scheduling equipment to be used by teachers (6.18%). The highest percentage of schools reporting a service as being performed by a principal was for serving as a member of a curriculum committee (32.18%). In no other instance did the number of secondary schools reporting principal's involvement in a service exceed 20%. For five of the services the percentages of schools fell between 15% and 20%. These five services performed by principals are teaching teachers to use equipment (18.55%), providing projector lamp replacement (18.18%), orienting new teachers to available media and media services (17.82%), selecting nonprint media for purchase (17.45%), and providing blank tapes for recording (16.36%). The lowest instances of principal's performance of a service were provided by one school (00.18%) reporting the principal as teaching students the use of the encyclopedia and one school reporting the principal as teaching students to use the card catalog.

There were no instances reported among the 550 secondary schools in Span 2 of school secretaries teaching students the use of encyclopedia, references other than encyclopedia, or the card catalog. The highest percentage of schools reporting a service performed by the school secretary was for providing lamp replacements (17.27%).

Over 50% of the schools reported classroom teachers as performing each of five different services. These services are teaching students the use of encyclopedia (68.73%), teaching students the use of references other than encyclopedia (61.82%), selecting nonprint media for purchase (54.91%), obtaining media from the AEAMC (53.82%), and doing media guidance (51.82%). In four other categories of service the percentages of schools reporting teachers' involvement fell between 40% and 50%. These are teaching students the use of the card catalog (48.36%), serving as a member of a curriculum committee (48.00%), teaching students the use of equipment (42.73%), and selecting print media for purchase (41.27%). Least involvment by classroom teachers was found for the service of calling teacher's attention to newly acquired media with 3.27% of the schools reporting performance of that service by teachers. Numbers and percentages for all services and the people performing them for the 7-12 schools in Span 2 are presented in Table 21.1.

CHAPTER 5

SUMMARY AND CONCLUSIONS

The "Survey of School Media Programs" is unprecendented in the history of public schools in Iowa. It has yielded the largest data base ever entered in the computers of the Department of Public Instruction on a single aspect of educational programs in the state. Its preservation in microfiche format will make it available to future researchers in the field of school library media programs. The publication of this report represents the most extensive analysis of the status of media services in Iowa schools ever attempted. Different and more refined analyses and comparisons of the data gathered by the study are possible in the future. All or portions of the study may be replicated at some future date to assess progress over time.

Plan for Progress . . . K-6 was pusblished in 1969 "to assist in planning and developing" media centers in elementary schools. The three-phase nature of the guidelines was "to enable Iowa schools to develop both short- and long-range goals." The writers suggested that "not more than three years should be allowed to achieve each of the three phases."[7]

Plan for Progress . . . 7-12 was published in 1970 to assist secondary schools with their transition from "the traditional library . . . to the broader concept of the media center." It was assumed that Iowa secondary schools were "predominately in or above Phase I," and it was suggested by the writers that "not over two years be planned for the achievement of Phase II and not over three additional years be planned for reaching Phase III."[8] State guidelines for the development of elementary school library media centers and programs had thus been available for seven years at the time of the study and for secondary schools for six years.

While information about media centers was gathered by DPI in 1969, the questions were not cast in the same format as the 1976 study, the data were never fully analyzed, and no attempt was made to relate them to a standard. Comparisons of the 1969 data with the 1976 study would be very difficult. Progress since the publication of the two sets of guidelines thus cannot be shown, and the 1976 study represents only the status quo at that time of schools reporting.

In the absence of mandatory requirements, however, Iowa shcools have not demonstrated a commitment voluntarily to bring their media programs up to Phase I according to the study. The results in comparison with the quantified guidelines of the two Plan for Progress volumes show considerable discrepancy between the minimum guidelines of Phase I and the general ability of Iowa schools to meet those guidelines. While the study was initiated by elementary school library media professionals because of their concern over what they felt to be a general lack of progress across the state in providing elementary schools with media services, the results show several guidelines for which secondary schools are no better or less well provided.

---

[7] Op cit, page 3

[8] Op cit, page 3

Every elementary school in Span 1 in the study failed to meet at least seven of its 31 quantified guidelines. Every secondary school in Span 2 failed to meet at least 12 of its 36 quantified guidelines. Half of the elementary schools failed to meet at least nineteen of their guidelines and half of the secondary schools failed to meet at least 23 of theirs. There was a noticable tendancy for few schools to meet certain guidelines such as those for art prints, phonograph recordings, and projector carts. Specified quantitities for Phases II and III are higher in early all categories. No attempt was made in this study to see if schools meeting Phase I guidelines also met Phase II and Phase III guidelines. While no statistical tests for significant differences were performed, the Size 7 schools most often exceeded their proportionate share of the study gruop meeting individual guidelines and in numbers of guidelines met.

Guidelines for Materials

Nearly one-third (32.50%) of the elementary schools in Span 1 did not meet a single guideline for materials. An additional 24.44% met only one materials guideline. Thus well over half of the elementary schools (56.94%) met no or only one guideline. A total of 72.24% of the schools met two or fewer guidelines. The performance of the secondary schools in Span 2 in meeting the materials guidelines was slightly better. Fewer than one-fourth (22.36%) did not meet any guideline. An additional 23.27% met only one, and 62.73% met two or fewer guidelines.

In no instance did the percentage of the 1,542 schools in the study meeting a materials guideline exceed 30%. There was no guideline which was not met by any school. Three kinds of print media, books, magazines for students, and professional magazines, showed the highest percentages of schools meeting a guideline. Among the nonprint media filmstrips showed the highest percentage of schools.

Some differences were found among the spans in the percentages meeting the materials critera. While there were no instances in which 30% of all schools combined met a criterion, there were 13 instances in which one span or another exceeded 30% of its total.

Guidelines for Equipment

All of the equipment guidelines were met by some of the schools in the study. More than half of the schools met the criteria for eight of the 16 guidelines recommended for all levels. Over 90% of the schools met the criteria in the two categories of filmstrip projectors (94.94%) and duplicating machines (90.21%). To facilitate movement from one classroom to another and within a classroom, Plan for Progress recommends that each piece of equipment which is to be used for projection or is heavy and/or combersome be provided with its own wheeled cart. A total of 1,515 schools (98.25%) failed to meet this criterion.

More than half of the elementary schools in Span 1 met ten of their 16 equipment guidelines. In contrast only eight of their 20 equipment guidelines were met by more than half of the secondary schools. A higher percentage of elementary schools than secondary schools met 11 of the 16 guidelines in common to the two groups. The higher performance of the elementary schools may have been influenced by three factors which coincided in the 1960's in Iowa: the development of elementary school libraries; the transition nationally from the print library concept to the integrated instructional materials center concept; and the availability of federal funding for equipment purchase. It is also interesting to note that the technology of cassette tape players and recorders was just developing at the time the Plan for Progress documents were in preparation. Cassette tapes and equipment were seen as a viable instructional medium in time to be included in the 7-12 guidelines, but they are not included in the K-6 guidelines.

Seating Guideline

The Plan for Progress series is based on the assumption that each school shall have a school library media center among its instructional resources. A total of 1,403 (90.99%) of the 1,542 reporting schools indicated they had a physical space to house a library or media center. The quantified guidelines in Plan for Progress in the Media Center K-6 and Plan for Progress in the Media Center 7-12 are, however, stated in terms of seating capacity in the center. Only 43.19% of the schools (666) were able to meet the standard for seating. There is a considerable difference between the percentages of Span 1 and Span 2 schools meeting the seating criterion. Only 25.98% of the elementary schools (219) met the guideline while 68.55% (377) of the secondary schools met it.

Personnel Guidelines

The guidelines for professional staff in the media center are based on student enrollment. Phase I of Plan for Progress specifies one professional for up to 499 students at the elementary level and one for up to 749 students at the secondary level. Additional staff is recommended as enrollment increases. Only 436 schools (28.28%) were able to meet those criteria. Of the 843 elementary schools in Span 1, only 140 (16.61%) met the guideline. A total of 248 (45.09%) of the secondary schools in Span 2 met it.

Supporting nonprofessional staff at the elementary level is recommended at a one-to-one ratio with professional staff. At the secondary level the recommendation is for two nonprofessional persons for each professional. The study therefore used the same guidelines for elementary support staff as for professional staff, and two times the guidelines for secondary support staff as for professional staff. Those criteria were met by 272 (17.6%) of all the schools in the study. In Span 1,244 (28.9%) schools and in Span 2,18 (3.3%) schools met the criteria for support staff. Further analysis will be needed to provide an accurate estimation of the schools meeting both professional and support staff criteria.

Budget Guidelines

Only two of the 1,542 schools in the study reported a budget figure which met the Plan for Progress in the Media Center guideline. At the time of the survey this amount was $50.00 per pupil. It is computed at 3% of the national average per pupil expenditure and is designated for maintanance and improvement of materials collections only.

Conclusions

With the exception of nine of the equipment guidelines the number of schools not meeting guidelines far exceeds those which do. No school was found which met all of the guidelines for its level. The apparent fact that more schools are able to meet equipment guidelines than materials guidelines raises the question of whether equipment is being used with maximum effectiveness and efficiency. The absence of a full-time professional person in two-thirds of the media centers has serious implications for the effective use of resources and for the development of viable media programs. Many media professionals are inadequately supported by clerical and technical staff. This suggests that professional persons are spending time performing functions which could be more economically assigned to personnel on a lower pay scale.

One interpretation of the failure to meet the seating capacity guideline would be that physical space allotted to media centers is too small. The declining enrollment patter in the state suggests the possibility of expanding centers as space in the form of empty classrooms becomes available.

The cost to the state of implementing Phase I in all Iowa schools would be substantial. The study yielded data which makes it possible to estimate the cost of such an effort. According to the guideline for budgets for materials collections, the 1,542 schools in the study should have spent $27,459,000 in 1976. The actual expenditure was $4,127,822. These schools would have needed to put an additional $23,331,178 into their budgets for materials to meet the Phase I guidelines. The amount needed for equipment expenditures is more difficult to estimate. A hypothetical instance can be developed using the 16mm projector. The guideline is one per ten teaching stations. Assuming that each school which did not meet the guideline needed to purchase only one projector to meet it, 561 would be purchased. At an estimated cost of $650 a piece the total would be $364,650 for that one type of equipment alone. The 1,542 schools reported employing the full-time equivalent of 912 professional staff members. Assuming that enrollments were such that only one professional per center were needed to meet the guideline, an additional 630 professionals would be needed. If these 630 professionals were employed at the 1977-78 average teacher's salary of $13,190,[9] the added cost would be $8,309,700.

Recommendations for changes by the Department of Public Instruction, the Iowa Education Media Association, professional educators, or other interested groups must be carefully weighed against the findings of this study.

---

[9] Charles Harpster, "Teachers' Average Pay Tops $14,000," Des Moines Register, April 2, 1978, Section A, page 1.

Table 1

Survey Participation

Total number of Ia. public schools	1792
Total schools covered by report	1634
Percent covered	91.18%
Total reports	1542
Number covered on other reports	92
Percent covered on other reports	5.63%
Number not covered in any report	158
Percent not covered in any report	8.82%

TABLE 1.1
IEMA-DPI MEDIA SURVEY
Distribution Chart

SPAN	SIZE 1	SIZE 2	SIZE 3	SIZE 4	SIZE 5	SIZE 6	SIZE 7	TOTAL
1	87	84	82	76	68	113	333	843
2	117	84	87	59	34	58	111	550
3	18	12	8	10	1	1	5	55
4	5	11	13	13	5	4	9	60
5	25	8	0	1	0	0	0	34
TOTAL	252	199	190	159	108	176	458	1542

TABLE 2
Total Guidelines Met, Span 1, K-6
Statistical Measures of Comparison by Size
(Total possible 31)

	SIZE CODES							
	1	2	3	4	5	6	7	TOTAL
MEAN	8.66	9.68	11.27	10.74	10.18	11.50	13.24	11.51
PERCENTILES 90	13	15	16	15	15	16	19	17
75	11	12	14	13	13	14	16	14
50 (MEDIAN)	9	9	11	10	10	11	13	12
25	6	7	8	8	7	8	10	9
10	4	4	6	7	6	7	8	7
RANGE OF MIDDLE 50%	4.94	5.71	6.37	4.80	6.2	5.55	6.04	5.23
MODE	9	9	11	12	9	12	11	11

TABLE 2.1
Number and Percentage of Elementary Schools Meeting 12 or Fewer or 13 or More Guidelines by Size

SIZE CODE	SCHOOLS MEETING 12 OR FEWER		SCHOOLS MEETING 13 OR MORE	
	NO.	%	NO.	%
1	77	88.50	10	11.49
2	65	77.38	19	22.62
3	50	60.98	32	39.02
4	56	73.68	20	26.32
5	50	73.53	18	26.47
6	74	65.49	39	34.51
7	165	49.55	168	50.45
TOTAL	537	63.70	306	36.30

TABLE 2.2
Total Guidelines, Span 1, K-6
Number of Guidelines, Cumulative Numbers, and Cumulative Percents by Size
(Total possible 31)

	SIZE CODES																						
	1			2			3			4			5			6			7			TOTAL		
No. of standards	No. of schools	Cumulative No.	Cumulative %	No. of schools	Cumulative No.	Cumulative %	No. of schools	Cumulative No.	Cumulative %	No. of schools	Cumulative No.	Cumulative %	No. of schools	Cumulative No.	Cumulative %	No. of schools	Cumulative No.	Cumulative %	No. of schools	Cumulative No.	Cumulative %	No. of schools	Cumulative No.	Cumulative %
24	0	0	0.00	0	0	0.00	1	82	100.00	0	0	0.00	0	0	0.00	0	0	0.00	1	333	100.00	2	843	100.00
23	0	0	0.00	0	0	0.00	0	81	98.78	0	0	0.00	0	0	0.00	1	113	100.00	2	332	99.70	3	841	99.76
22	0	0	0.00	0	0	0.00	0	81	98.78	1	76	100.00	0	0	0.00	1	112	99.12	4	330	99.10	6	838	99.41
21	0	0	0.00	0	0	0.00	0	81	98.78	0	75	98.68	0	0	0.00	0	111	98.23	10	326	97.90	10	832	98.70
20	0	0	0.00	0	0	0.00	0	81	98.78	0	75	98.68	0	0	0.00	1	111	98.23	16	316	94.89	17	822	97.51
19	1	87	100.00	1	84	100.00	1	81	98.78	0	75	98.68	1	68	100.00	2	110	97.35	11	300	90.09	17	805	95.49
18	0	86	98.85	2	83	98.81	3	80	97.56	1	75	98.68	1	67	98.53	2	108	95.58	17	289	86.79	26	788	93.48
17	0	86	98.85	0	81	96.43	2	77	93.90	1	74	97.37	1	66	97.06	3	106	93.80	20	272	81.68	27	762	90.39
16	1	86	98.85	2	81	96.43	4	75	91.46	2	73	96.05	2	65	95.59	5	103	91.15	20	252	75.68	36	735	87.19
15	1	85	97.70	4	79	94.05	8	71	86.59	4	71	93.42	4	63	92.65	6	98	86.73	21	232	69.67	48	699	82.92
14	1	84	96.55	5	75	89.29	7	63	76.83	9	67	88.16	4	59	86.76	12	92	81.42	22	211	63.36	60	651	77.22
13	6	83	95.40	5	70	83.33	6	56	68.29	2	58	76.32	5	55	80.88	6	80	70.80	24	189	56.76	54	591	70.11
12	8	77	88.50	7	65	77.38	4	50	60.98	12	56	73.68	5	50	73.53	15	74	65.49	33	165	49.55	84	537	63.70
11	8	69	79.31	7	58	69.05	9	46	56.10	6	44	57.89	3	45	66.18	14	59	52.21	44	132	39.64	91	453	53.74
10	10	61	70.11	6	51	60.71	8	37	45.12	5	38	50.00	9	42	61.76	9	45	39.82	31	88	26.43	78	362	42.94
9	13	51	58.62	13	45	53.57	8	29	35.37	11	33	43.42	12	33	48.53	6	36	31.86	24	57	17.12	87	284	33.69
8	7	38	43.68	11	32	38.09	5	21	25.61	10	22	28.95	4	21	30.88	12	30	26.55	11	33	9.91	60	197	23.37
7	6	31	35.63	5	21	25.00	8	16	19.51	6	12	15.79	6	17	25.00	14	18	15.93	11	22	6.61	56	137	16.25
6	8	25	28.74	7	16	19.05	4	8	9.76	4	6	7.89	6	11	16.18	2	4	3.54	3	11	3.30	34	81	9.61
5	7	17	19.54	1	9	10.71	1	4	4.88	2	2	2.63	4	5	7.35	2	2	1.77	0	8	2.40	17	47	5.58
4	4	10	11.49	2	8	9.52	2	3	3.66	0	0	0.00	1	1	1.47	0	0	0.00	3	8	2.40	12	30	3.56
3	3	6	6.90	4	6	7.14	0	1	1.22	0	0	0.00	0	0	0.00	0	0	0.00	1	5	1.50	8	18	2.14
2	1	3	3.45	1	2	2.38	0	1	1.22	0	0	0.00	0	0	0.00	0	0	0.00	2	4	1.20	4	10	1.19
1	2	2	2.30	1	1	1.19	1	1	1.22	0	0	0.00	0	0	0.00	0	0	0.00	2	2	.60	6	6	.71
0																								

TABLE 2.3
Number and Percentages of Secondary Schools Meeting 13 or Fewer or 14 or More Guidelines by Size Code

SIZE CODE	SCHOOLS MEETING 13 OR FEWER		SCHOOLS MEETING 14 OR MORE	
	NO.	%	NO.	%
1	97	82.91	20	17.09
2	64	76.18	20	27.81
3	47	54.05	40	45.98
4	30	50.84	29	49.15
5	17	50.00	17	50.00
6	16	27.58	42	72.41
7	40	36.03	71	63.96
TOTAL	311	56.55	239	43.45

TABLE 2.4
Total Guidelines, Span 2, 7-12
Statistical Measures of Comparison by Size
(Total possible 36)

	SIZE CODE							
	1	2	3	4	5	6	7	TOTAL
MEAN	10.50	11.68	13.01	13.64	13.53	15.80	15.17	13.10
PERCENTILES 90	15	16	17	19	19	20	21	19
75	13	13	15	17	15	18	18	16
50 (MEDIAN)	10	12	13	13	13	16	15	13
25	8	9	10	10	11	13	12	10
10	6	8	8	8	8	11	10	8
RANGE OF MIDDLE 50 %	4.90	4.03	5.19	6.43	4.13	5.09	5.47	5.73
MODE	8, 13	12	13	13	14	17, 18	16	13

TABLE 2.5
Total Guidelines, Span 2, 7-12
Number of Guidelines, Cumulative Numbers and
Cumulative Percents by Size
(Total possible 36)

	SIZE CODES																							
	1			2			3			4			5			6			7			TOTAL		
No. of standards	No. of schools	Cumulative No.	Cumulative %	No. of schools	Cumulative No.	Cumulative %	No. of schools	Cumulative No.	Cumulative %	No. of schools	Cumulative No.	Cumulative %	No. of schools	Cumulative No.	Cumulative %	No. of schools	Cumulative No.	Cumulative %	No. of schools	Cumulative No.	Cumulative %	No. of schools	Cumulative No.	Cumulative %
24	0	0	0.00	0	0	0.00	1	87	100.00	0	0	0.00	1	34	99.98	3	58	99.98	2	111	99.98	7	550	100.00
23	0	0	0.00	0	0	0.00	1	86	98.89	1	59	99.97	0	33	97.04	0	55	94.81	2	109	98.18	4	543	98.72
22	0	0	0.00	0	0	0.00	0	85	97.74	0	58	98.28	1	33	97.04	1	55	94.81	3	107	96.38	5	539	98.00
21	2	117	100.00	0	0	0.00	1	85	97.74	3	58	98.28	0	32	94.10	2	54	93.09	8	104	93.68	16	534	97.09
20	0	115	98.30	1	84	99.98	0	84	96.59	2	55	93.20	1	32	94.10	2	52	89.64	4	96	86.47	10	518	94.18
19	0	115	98.30	0	83	98.79	2	84	96.59	2	53	89.81	1	31	91.16	5	50	86.19	5	92	82.87	15	508	92.36
18	0	[illegible]	98.30	3	83	98.79	3	82	94.29	4	51	86.42	1	30	88.22	7	45	77.57	5	87	78.37	23	493	89.64
17	4	115	98.30	3	80	95.22	8	79	90.84	4	47	79.64	1	29	85.28	7	38	65.50	10	82	73.87	37	470	85.45
16	4	111	94.88	5	77	91.65	5	71	81.64	1	43	72.86	1	28	82.34	3	31	53.43	12	72	64.86	31	433	78.73
15	4	107	91.46	4	72	85.70	6	66	75.89	7	42	71.17	4	27	79.40	6	28	48.26	10	60	54.05	41	402	73.09
14	6	103	88.04	4	68	80.94	13	60	68.99	5	35	59.31	6	23	67.64	6	22	37.92	10	50	45.04	50	361	65.64
13	16	97	82.91	12	64	76.18	12	47	54.05	10	30	50.84	2	17	50.00	5	16	27.58	10	40	36.03	67	311	56.55
12	12	81	62.23	11	52	61.89	6	35	40.25	2	20	33.89	4	15	44.11	5	11	18.96	10	30	27.02	50	244	44.36
11	10	69	58.97	9	41	48.79	6	29	33.35	3	18	30.50	5	11	32.35	2	6	10.34	9	20	18.01	44	194	35.27
10	9	59	50.42	10	32	38.08	4	23	26.45	2	15	25.42	3	6	17.64	2	4	6.89	2	11	9.90	32	150	27.27
9	13	50	42.73	9	22	26.18	8	19	21.85	7	13	22.03	0	3	8.82	0	2	3.44	4	9	8.10	41	118	21.45
8	16	37	31.62	6	13	15.47	6	11	12.65	4	6	10.17	2	3	8.82	0	2	3.44	3	5	4.50	37	77	14.00
7	6	21	17.94	3	7	8.33	2	5	5.75	0	2	3.39	0	1	2.94	1	2	3.44	1	2	1.80	13	40	7.27
6	8	15	12.81	3	4	4.76	1	3	3.45	0	2	3.39	0	1	2.94	0	1	1.72	0	1	0.90	12	27	4.91
5	1	7	5.97	1	1	1.19	2	2	2.30	0	2	3.39	1	1	2.94	0	1	1.72	0	1	0.90	5	15	2.73
4	2	6	5.12	0	0	0.00	0	0	0.00	2	2	3.39	0	0	0.00	1	1	1.72	0	1	0.90	5	10	1.82
3	3	4	3.41	0	0	0.00	0	0	0.00	0	0	0.00	0	0	0.00	0	0	0.00	1	1	0.90	4	5	0.91
2	1	1	0.85	0	0	0.00	0	0	0.00	0	0	0.00	0	0	0.00	0	0	0.00	0	0	0.00	1	1	0.18
1	0	0	0.00	0	0	0.00	0	0	0.00	0	0	0.00	0	0	0.00	0	0	0.00	0	0	0.00	0	0	0.00
0																								

TABLE 3
Plan for Progress
Phase I Guidelines for Material

	PHASE I	
	K-6	7-12
Books by Title	6,000	7,000
Books by Volume	greater of 6,000 or 10 per pupil	greater of 8,000 or 12 per pupil
Magazines for Students	15-24	JH 75 SH 100-125
Newspapers	3	6
Silent Filmstrips Sound Filmstrips	greater of 500 or 1 per pupil	
Sound Recordings	greater of 1,000 or 2 per pupil	
Study Prints	greater of 100 sets or 1 per 5 pupils	*no standard - do not count*
Globes	1 per teaching station +2	1 per 5 teaching stations + 2
Art Prints	300	
Professional Books	200-600	
Professional Magazines	10-29	
Transparencies	*no standard - do not count*	1,000
Slides	*no standard - do not count*	2,000
TOTALS	11	12

TABLE 3.1
Materials Guidelines, Span 1, K-6
Three Measures of Central Tendency by Size
(Total Possible 11)

	SIZE							
	1	2	3	4	5	6	7	TOTAL
MEAN	.87	1.45	1.89	1.36	1.26	1.50	2.24	1.71
MEDIAN	.64	1.13	1.21	.75	.78	1.10	1.78	1.23
MODE	0	0	0	0	0	0	0	0

TABLE 3.2
Cumulative Percentages of Elementary Schools
Meeting 0, 0-1, and 0-2 Materials Guidelines
by Size

SIZE	% MEETING NO GUIDELINES	% MEETING 0-1 GUIDELINES	% MEETING 0-2 GUIDELINES
1	45.98	75.87	91.96
2	32.14	60.71	77.38
3	35.37	56.10	60.98
4	43.42	69.74	76.32
5	42.65	69.12	83.83
6	34.51	60.17	77.87
7	23.12	44.74	63.36
TOTAL	32.50	56.94	72.24

TABLE 3.3

Number of Materials Guidelines Met, Span 1, K-6
by Numbers and Percentages of Schools
And by Cumulative Frequencies and Percentages
by Size
(Total Possible 11)

SIZE

	1				2				3				4				5				6				7				Total			
No. of standards	No. of schools	% of schools	Cumulative frequency	Cumulative %	No. of schools	% of schools	Cumulative frequency	Cumulative %	No. of schools	% of schools	Cumulative frequency	Cumulative %	No. of schools	% of schools	Cumulative frequency	Cumulative %	No. of schools	% of schools	Cumulative frequency	Cumulative %	No. of schools	% of schools	Cumulative frequency	Cumulative %	No. of schools	% of schools	Cumulative frequency	Cumulative %	No. of schools	% of schools	Cumulative frequency	Cumulative %
8	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	2	.60	333	99.99	2	.24	843	100.00
7	0	0.00	0	0.00	1	1.19	84	100.00	1	1.22	82	100.00	1	1.32	76	100.00	0	0.00	0	0.00	2	1.77	113	99.98	8	2.40	331	99.39	13	1.54	841	99.76
6	0	0.00	0	0.00	0	0.00	83	98.81	1	1.22	81	98.79	2	2.63	75	98.69	2	2.94	68	100.00	2	1.77	111	98.21	16	4.80	323	96.99	23	2.74	828	98.22
5	0	0.00	0	0.00	2	2.38	83	98.81	7	8.54	80	97.57	2	2.63	73	96.06	3	4.41	66	97.06	2	1.77	109	96.44	31	9.31	307	92.19	47	5.58	805	95.49
4	1	1.15	87	100.00	5	5.95	81	96.43	13	15.85	73	89.03	5	6.58	71	93.43	3	4.41	63	92.65	8	7.08	107	94.67	31	9.31	276	82.88	66	7.83	758	89.92
3	6	6.90	86	98.86	11	13.10	76	90.48	10	12.20	60	73.18	8	10.53	66	86.85	3	4.41	60	88.24	11	9.73	99	87.60	34	10.21	245	73.57	83	9.85	692	82.09
2	14	16.09	80	91.96	14	16.67	65	77.38	4	4.88	50	60.98	5	6.58	58	76.32	10	14.71	57	83.83	20	17.70	88	77.87	62	18.62	211	63.36	129	15.30	609	72.24
1	26	29.89	66	75.87	24	28.57	51	60.71	17	20.73	46	56.10	20	26.32	53	69.74	18	31.03	47	69.12	29	25.66	68	60.17	72	21.62	149	44.74	206	24.44	480	56.94
0	40	45.98	40	45.98	27	32.14	27	32.14	29	35.37	29	35.37	33	43.42	33	43.42	29	42.65	29	42.65	39	34.51	39	34.51	77	23.12	77	23.12	274	32.50	274	32.50

TABLE 3.4
Materials Guidelines, Span 2, 7-12
Three Measures of Central Tendency by Size
(Total Possible 12)

	SIZE							
	1	2	3	4	5	6	7	TOTAL
MEAN	1.15	1.32	1.89	2.37	2.47	3.48	3.40	2.20
MEDIAN	.91	1.09	1.53	2.13	2.33	3.32	3.13	1.76
RANGE OF MIDDLE 80%	1	0	1	0	1.5	3	3	1

TABLE 3.5
Cumulative Percentages of Secondary Schools
Meeting 0, 0-1, and 0-2 Materials Guidelines
By Size

SIZE	% MEETING NO GUIDELINES	% MEETING 0-1 GUIDELINES	% MEETING 0-2 GUIDELINES
1	34.19	72.65	87.19
2	34.52	60.71	82.14
3	21.84	49.43	72.41
4	22.03	37.29	57.63
5	17.65	35.29	52.94
6	6.90	24.14	34.48
7	10.81	21.62	35.14
TOTAL	22.36	45.64	62.73

TABLE 3.6
Number of Materials Guidelines Met, Span 2, 7-12
by Numbers and Percentages of Schools and
by Cumulative Frequencies and Percentages
(Total possible 12)

	SIZE																															
	1				2				3				4				5				6				7				TOTAL			
No. of standards	No. of schools	% of schools	Cumulative frequency	Cumulative %	No. of schools	% of schools	Cumulative frequency	Cumulative %	No. of schools	% of schools	Cumulative frequency	Cumulative %	No. of schools	% of schools	Cumulative frequency	Cumulative %	No. of schools	% of schools	Cumulative frequency	Cumulative %	No. of schools	% of schools	Cumulative frequency	Cumulative %	No. of schools	% of schools	Cumulative frequency	Cumulative %	No. of schools	% of schools	Cumulative frequency	Cumulative %
10	0	0.00	0	0.00	0	0.00	0	0.00	1	1.15	87	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	1	0.18	550	100.00
9	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	86	98.85	0	0.00	0	0.00	0	0.00	0	0.00	1	1.72	58	100.00	1	0.90	111	100.00	2	0.36	549	99.82
8	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	86	98.85	0	0.00	0	0.00	0	0.00	0	0.00	3	5.17	57	98.28	7	6.31	110	99.10	10	1.82	547	99.45
7	0	0.00	0	0.00	0	0.00	0	0.00	1	1.15	86	98.85	0	0.00	0	0.00	1	2.94	34	100.00	1	1.72	54	93.10	5	4.50	103	92.79	8	1.45	537	97.64
6	2	1.71	117	100.00	0	0.00	0	0.00	2	2.30	85	97.70	2	3.39	59	100.00	1	2.94	33	97.06	6	10.34	53	91.38	6	5.41	98	88.29	19	3.45	529	96.18
5	1	0.85	115	98.29	2	2.38	84	100.00	2	2.30	83	95.40	9	15.25	57	96.61	3	8.82	32	94.12	7	12.07	47	81.03	13	11.71	92	82.88	37	6.73	510	92.73
4	2	1.71	114	97.44	4	4.76	82	97.62	7	8.05	81	93.10	8	13.56	48	81.36	5	14.71	29	85.29	9	15.52	40	68.03	14	12.61	79	71.18	49	8.91	473	86.00
3	10	8.55	112	95.73	9	10.71	78	92.86	11	12.64	74	85.06	6	10.47	40	67.80	6	17.65	24	70.59	11	18.97	31	53.45	26	23.42	65	58.56	79	14.36	424	77.10
2	17	14.53	102	87.19	18	21.43	69	82.14	20	22.99	63	72.41	12	20.34	34	57.63	6	17.65	18	52.94	6	10.34	20	34.48	15	13.51	39	35.14	94	17.08	345	62.73
1	45	38.46	85	72.65	22	26.19	51	60.71	24	27.59	43	49.43	9	15.25	22	37.29	6	17.65	12	35.29	10	17.24	14	24.14	12	10.81	24	21.62	128	23.27	251	45.64
0	40	34.19	40	34.19	29	34.52	29	34.52	19	21.84	19	21.84	13	22.03	13	22.03	6	17.65	6	17.65	4	6.90	4	6.90	12	10.81	12	10.81	123	22.36	123	22.36

TABLE 3.7
Numbers and Percentages of All Schools Not Meeting/Meeting Materials Guidelines

	NOT MEETING		MEETING	
	NO.	%	NO.	%
Books by title	1186	76.96	355	23.04
Books by volume	1143[c]	74.17	398	25.83
Magazines	1092	70.82	450	29.18
Newspapers	1265	82.04	277	17.96
Filmstrips	1203	78.02	339	21.98
Sound recordings	1536	99.61	6	0.39
Study print sets[a]	813	90.53	85	9.47
Globes	1284	83.27	258	16.73
Art prints	1532	99.35	10	0.65
Professional books	1408	91.31	134	8.69
Professional magazines	1116	72.37	426	27.63
Transparencies[b]	606	94.10	38	5.90
Slides[b]	616	95.65	28	4.35

[a] Spans 1 and 3 only

[b] Spans 2, 4, and 5 only

[c] One school missing in data bank

TABLE 3.8
Numbers and Percentages of All Schools by Size Not Meeting/Meeting Materials Guidelines

	SIZE 1				SIZE 2				SIZE 3				SIZE 4			
	NOT MEETING		MEETING		NOT MEETING		MEETING		NOT MEETING		MEETING		NOT MEETING		MEETING	
MATERIALS CATEGORY[a]	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%
Books by title	223	88.49	29	11.51	170	85.43	29	14.57	142	74.74	48	25.26	124	77.99	35	22.01
Books by volume	224	88.89	28	11.11	167	83.92	32	16.08	145	76.32	45	23.68	124	77.99	35	22.01
Student magazines	226	89.68	26	10.32	155	77.89	44	22.11	149	78.42	41	21.58	132	83.02	27	16.98
Newspapers	205	81.35	47	18.65	155	77.89	44	22.11	131	68.95	59	31.05	115	72.33	44	27.67
Filmstrips	212	84.13	40	15.87	170	85.43	29	14.57	139	73.16	51	26.84	122	76.73	37	23.27
Study prints[b]	100	95.24	5	4.76	86	89.58	10	10.42	85	94.44	5	5.56	80	93.02	6	6.98
Globes	202	80.16	50	19.84	158	79.40	41	20.60	162	85.26	28	14.74	138	86.79	21	13.21
Professional books	245	97.22	7	2.78	193	96.98	6	3.02	178	93.68	12	6.32	148	93.08	11	6.92
Professional magazines	201	79.76	51	20.24	152	76.38	47	23.62	133	70.00	57	30.00	113	71.07	46	28.93
Transparencies[c]	140	95.24	7	4.76	100	97.09	3	2.91	93	93.00	7	7.00	68	93.15	5	6.85

[a] Sound recordings, art prints, and slides are omitted as categories in which less than 5% of schools met the criteria.

[b] Includes Spans 1 and 3 only

[c] Includes Spans 2, 4, and 5 only

[d] One school missing in data bank

TABLE 3.8 con't.

	SIZE 5				SIZE 6				SIZE 7				TOTAL			
	NOT MEETING		MEETING		NOT MEETING		MEETING		NOT MEETING		MEETING		NOT MEETING		MEETING	
MATERIALS CATEGORY[a]	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%
Books by title	89	82.41	19	17.59	123	69.89	53	30.11	315[d]	68.92	142	31.07	1186[d]	76.96	355	23.04
Books by volume	85	78.70	23	21.30	119	67.61	57	32.37	279	61.05	178	38.95	1143	74.17	398	25.83
Student magazines	91	84.26	17	15.74	115	65.34	61	34.66	224	48.91	234	51.09	1092	70.82	450	29.18
Newspapers	89	82.41	19	17.59	162	92.05	14	7.95	408	89.08	50	10.92	1265	82.04	277	17.96
Filmstrips	80	74.07	28	25.93	146	82.95	30	17.05	334	72.93	124	27.07	1203	78.02	339	21.98
Study Prints[b]	64	92.75	5	7.25	105	92.11	9	7.89	293	86.69	45	13.31	813	90.53	85	9.47
Globes	87	80.56	21	19.44	148	84.09	28	15.91	389	84.93	69	15.07	1284	83.27	258	16.73
Professional books	99	91.67	9	8.33	157	89.20	19	10.80	388	84.72	70	15.28	1408	91.31	134	8.69
Professional magazines	81	75.00	27	25.00	113	64.20	63	35.80	323	70.52	135	29.48	1116	72.37	426	27.63
Transparencies[c]	36	92.31	3	7.69	61	98.39	1	1.61	108	90.00	12	10.00	606	94.10	38	5.90

TABLE 3.9
Numbers and Percentages of Span 1 and Span 2 Schools Not Meeting/Meeting Materials Guidelines

	ELEMENTARY				SECONDARY			
	NOT MEETING		MEETING		NOT MEETING		MEETING	
	NO.	%	NO.	%	NO.	%	NO.	%
Books by title	645[c]	76.60	197	23.40	427	77.64	123	22.36
Books by volume	589	69.95	253	30.05	435	79.09	115	20.91
Magazines	520	61.68	323	38.32	458	83.27	92	16.73
Newspapers	766	90.87	77	9.13	388	70.55	162	29.45
Filmstrips	655	77.70	188	22.30	438	79.64	112	20.36
Sound recordings	839	99.53	4	0.47	549	99.82	1	0.18
Study print sets[a]	760	90.15	83	9.85				
Globes	698	82.80	145	17.20	477	86.73	73	13.27
Art prints	842	99.88	1	0.12	542	98.55	8	1.45
Professional books	779	92.41	64	7.59	488	88.73	62	11.27
Professional magazines	721	85.53	122	14.47	296	53.82	254	46.18
Transparencies[b]					517	94.00	33	6.00
Slides[b]					522	94.91	28	5.09

[a] Spans 1 and 3 only

[b] Spans 2, 4, and 5 only

[c] One school missing in data bank

TABLE 3.10
Numbers and Percentages of Span 1, K-6 Schools Not Meeting/Meeting Materials Guidelines by Size

	SIZE 1				SIZE 2				SIZE 3				SIZE 4			
	NOT MEETING		MEETING		NOT MEETING		MEETING		NOT MEETING		MEETING		NOT MEETING		MEETING	
MATERIALS CATEGORY[a]	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%
Books by title	81	93.10	6	6.90	66	78.57	18	21.43	58	70.73	24	29.27	65	85.53	11	14.47
Books by volume	77	88.51	10	11.49	61	72.62	23	27.38	54	65.85	28	34.15	61	80.26	15	19.74
Student magazines	69	79.31	18	20.69	52	61.90	32	38.10	54	65.85	28	34.15	60	78.95	16	21.05
Newspapers	77	88.51	10	11.49	77	91.67	7	8.33	63	76.83	19	23.17	62	81.58	14	18.42
Filmstrips	76	87.36	11	12.64	71	84.52	13	15.48	59	71.95	23	28.05	62	81.58	14	18.42
Study prints	83	95.40	4	4.60	74	88.10	10	11.90	77	93.90	5	6.10	71	93.42	5	6.58
Globes	74	85.06	13	14.94	72	85.71	12	14.29	69	84.15	13	15.85	64	84.21	12	15.79
Professional books	86	98.85	1	1.15	82	97.62	2	2.38	79	96.34	3	3.66	72	94.74	4	5.26
Professional magazines	84	96.55	3	3.45	78	92.86	6	7.14	69	84.15	13	15.85	65	85.53	11	14.47

[a] Sound recordings and art prints are omitted as categories in which less than 5% of the schools met the criteria.

[b] One school missing in data bank

TABLE 3.10 con't.

MATERIALS CATEGORY[a]	SIZE 5				SIZE 6				SIZE 7				TOTAL			
	NOT MEETING		MEETING		NOT MEETING		MEETING		NOT MEETING		MEETING		NOT MEETING		MEETING	
	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%
Books by title	62	91.18	6	8.82	87	76.99	26	23.01	226[b]	68.07	106	31.93	645	76.60	197	23.40
Books by volume	57	83.82	11	16.18	84	74.34	29	25.66	195	58.73	137	41.27	589	69.95	253	30.05
Student magazines	55	80.88	13	19.12	76	67.26	37	32.74	154	46.25	179	53.75	520	61.68	323	38.32
Newspapers	62	91.18	6	8.82	101	89.38	12	10.62	324	97.30	9	2.70	766	90.87	77	9.13
Filmstrips	54	79.41	14	20.59	98	86.73	15	13.27	235	70.57	98	29.43	655	77.70	188	22.30
Study prints	63	92.65	5	7.35	104	92.04	9	7.96	288	86.49	45	13.51	760	90.15	83	9.85
Globes	51	75.00	17	25.00	95	84.07	18	15.93	273	81.98	60	18.02	698	82.80	145	17.20
Professional books	62	91.18	6	8.82	108	95.58	5	4.42	290	87.09	43	12.91	779	92.41	64	7.59
Professional magazines	60	88.24	8	11.76	97	85.84	16	14.16	268	80.48	65	19.52	721	85.53	122	14.47

TABLE 3.11
Numbers and Percentages of Span 2, 7-12 Schools Not Meeting/Meeting Materials Guidelines by Size

	SIZE 1				SIZE 2				SIZE 3				SIZE 4			
	NOT MEETING		MEETING		NOT MEETING		MEETING		NOT MEETING		MEETING		NOT MEETING		MEETING	
MATERIALS CATEGORY[a]	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%
Books by title	110	94.02	7	5.98	79	94.05	5	5.95	68	78.16	19	21.84	39	66.10	20	33.90
Books by volume	112	95.73	5	4.27	82	97.62	2	2.38	74	85.06	13	14.94	43	72.88	16	27.12
Student magazines	116	99.15	1	0.85	81	96.43	3	3.57	80	91.95	7	8.05	54	91.53	5	8.47
Newspapers	92	78.63	25	21.37	57	67.86	27	32.14	52	59.77	35	40.23	32	54.24	27	45.76
Filmstrips	103	88.03	14	11.97	75	89.29	9	10.71	65	74.71	22	25.29	42	71.19	17	28.81
Globes	89	76.07	28	23.93	67	79.76	17	20.24	77	88.51	10	11.49	57	96.61	2	3.39
Professional books	112	95.73	5	4.27	81	96.43	3	3.57	80	91.95	7	8.05	54	91.53	5	8.47
Professional magazines	80	68.38	37	31.62	49	58.33	35	41.67	51	58.62	36	41.38	34	57.63	25	42.37
Transparencies	111	94.87	6	5.13	81	96.43	3	3.57	82	94.25	5	5.75	55	93.22	4	6.78

---

[a] Sound recordings, art prints, and slides are omitted as categories in which less than 5% of the schools met the criteria.

TABLE 3.11 con't.

	SIZE 5				SIZE 6				SIZE 7				TOTAL			
	NOT MEETING		MEETING		NOT MEETING		MEETING		NOT MEETING		MEETING		NOT MEETING		MEETING	
MATERIALS CATEGORY [a]	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%
Books by title	21	61.76	13	38.24	32	55.17	26	44.83	78	70.27	33	29.73	427	77.64	123	22.36
Books by volume	22	64.71	12	35.29	31	53.45	27	46.55	71	63.96	40	36.04	435	79.09	115	20.91
Student magazines	31	91.18	3	8.82	34	58.62	24	41.38	62	55.86	49	49.14	458	83.27	92	16.73
Newspapers	22	64.71	12	35.29	58	100.00	0	0.00	75	67.57	36	32.43	388	70.55	162	29.45
Filmstrips	22	64.71	12	35.29	44	75.86	14	24.14	87	78.38	24	21.62	438	79.64	112	20.36
Globes	31	91.18	3	8.82	52	89.66	6	10.34	104	93.69	7	6.31	477	86.73	73	13.27
Professional books	31	91.18	3	8.82	45	77.59	13	22.41	85	76.58	26	23.42	488	88.73	62	11.27
Professional magazines	16	47.06	18	52.94	14	24.14	44	75.86	52	46.85	59	53.15	298	53.82	254	46.18
Transparencies	31	91.18	3	8.82	58	100.00	0	0.00	99	89.19	12	10.81	517	94.00	33	6.00

TABLE 3.12
Numbers and Percentages of Span 3, 4, and 5 Schools Not Meeting/Meeting Materials Guidelines

	SPAN 3 - K -8				SPAN 4 - MIDDLE				SPAN 5 - K-12			
	NOT MEETING		MEETING		NOT MEETING		MEETING		NOT MEETING		MEETING	
	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%
Books by title	40	72.73	15	27.27	55	91.67	5	8.33	19	55.88	15	44.12
Books by volume	40	72.73	15	27.27	56	93.33	4	6.67	23	67.65	11	32.35
Magazines	22	40.00	33	60.00	59	98.33	1	1.67	33	97.06	1	2.94
Newspapers	27	49.09	28	50.91	57	95.00	3	5.00	27	79.41	7	20.59
Filmstrips	39	70.91	16	29.09	48	80.00	12	20.00	23	67.65	11	32.35
Sound recordings	55	100.00	0	0.00	59	98.33	1	1.67	34	100.00	0	0.00
Study print sets[a]	53	96.36	2	3.64								
Globes	52	94.55	3	5.45	37	61.67	23	38.33	20	58.82	14	41.18
Art prints	55	100.00	0	0.00	59	98.33	1	1.67	34	100.00	0	0.00
Professional books	53	96.36	2	3.64	55	91.67	5	8.33	33	97.06	1	2.94
Professional magazines	37	67.27	18	32.73	39	65.00	21	35.00	23	67.65	11	32.35
Transparencies[b]					56	93.33	4	6.67	33	97.06	1	2.94
Slides[b]					60	100.00	0	0.00	34	100.00	0	0.00

[a] Span 3 only

[b] Spans 4 and 5 only

TABLE 3.13
Comparison of K-6 and 7-12 Schools in Not Meeting/Meeting Two Guidelines

		NEWSPAPERS		PROFESSIONAL MAGAZINES	
	% OF TOTAL SCHOOLS[a]	% OF TOTAL NUMBER		% OF TOTAL NUMBER	
		NOT MEETING	MEETING	NOT MEETING	MEETING
SPAN 1	54.67	60.55	27.80	64.61	28.64
SPAN 2	35.67	30.67	58.48	26.52	59.62

[a] Percentages do not equal 100 because Spans 3, 4, and 5 are not shown.

TABLE 3.14
Comparison of All Schools by Span of Percentages of Total Not Meeting/Meeting Materials Criteria with Percentage Each Span Is of Total Number of Schools in Study[a]

SPAN	NO. OF SCHOOLS	% OF TOTAL NUMBER OF SCHOOLS IN SPAN[b]	BOOKS BY TITLE		BOOKS BY VOLUME		MAGAZINES FOR STUDENTS		NEWSPAPERS		FILMSTRIPS		STUDY PRINTS[c]		GLOBES		PROFESSIONAL BOOKS		PROFESSIONAL MAGAZINES		TRANSPARENCIES[d]	
			% OF TOTAL NOT MEETING NO. 1186	% OF TOTAL MEETING NO. 355	% OF TOTAL NOT MEETING NO. 1143	% OF TOTAL MEETING NO. 398	% OF TOTAL NOT MEETING NO. 1092	% OF TOTAL MEETING NO. 450	% OF TOTAL NOT MEETING NO. 1265	% OF TOTAL MEETING NO. 277	% OF TOTAL NOT MEETING NO. 1203	% OF TOTAL MEETING NO. 339	% OF TOTAL NOT MEETING NO. 898	% OF TOTAL MEETING NO. 100	% OF TOTAL NOT MEETING NO. 1284	% OF TOTAL MEETING NO. 258	% OF TOTAL NOT MEETING NO. 1408	% OF TOTAL MEETING NO. 134	% OF TOTAL NOT MEETING NO. 1116	% OF TOTAL MEETING NO. 426	% OF TOTAL NOT MEETING NO. 607	% OF TOTAL MEETING NO. 37
1	843	54.67	54.38	55.49	51.53	63.57	47.62	71.78	60.55	27.80	54.45	55.46	93.48	97.65	54.36	56.20	55.33	47.76	64.61	28.64	0.00	0.00
2	550	35.67	36.00	34.65	38.06	28.89	41.94	20.44	30.67	58.48	36.41	33.04	0.00	0.00	37.15	28.29	34.66	46.27	26.52	59.62	85.17	89.19
3	55	3.57	3.37	4.23	3.50	3.77	2.02	7.33	2.13	10.11	3.24	4.72	6.52	2.35	4.05	1.16	3.76	1.49	3.32	4.23	0.00	0.00
4	60	3.89	4.64	1.41	4.90	1.00	5.40	0.22	4.51	1.08	3.99	3.54	0.00	0.00	2.88	8.91	3.91	3.73	3.49	4.93	9.39	8.11
5	34	2.20	1.60	4.23	2.12	2.76	3.02	0.22	2.13	2.53	1.91	3.25	0.00	0.00	1.56	5.43	2.34	0.75	2.06	2.58	5.44	2.70
TOTAL	1542	100.00	99.99	100.00	100.00	99.99	100.00	99.99	99.99	100.00	100.00	100.00	100.00	100.00	100.00	99.99	100.00	100.00	100.00	100.00	100.00	100.00

[a] Sound recordings, art prints, and slides are omitted as categories in which less than 5% of schools met criteria.

[b] Percentages in each column across may be compared with the percentage in this column to assess whether a span was contributing more or less of its proportionate share of those schools not meeting or meeting a criterion.

[c] Spans 1 and 3 only.

[d] Spans 2, 4, and 5 only.

TABLE 3.15

Comparison of All Schools by Size of Percentages of Total Not Meeting/Meeting Materials Criteria with Percentage Each Size Is of Total Number of Schools in Study[a]

SIZE	NO. OF SCHOOLS	% OF TOTAL NUMBER OF SCHOOLS IN SIZE[b]	BOOKS BY TITLE		BOOKS BY VOLUME		STUDENT MAGAZINES		NEWSPAPERS		FILMSTRIPS		STUDY PRINTS[c]		GLOBES		PROFESSIONAL BOOKS		PROFESSIONAL MAGAZINES		TRANSPARENCIES[d]	
			% OF TOTAL NOT MEETING NO. 1186	% OF TOTAL MEETING NO. 355	% OF TOTAL NOT MEETING NO. 1143	% OF TOTAL MEETING NO. 398	% OF TOTAL NOT MEETING NO. 1092	% OF TOTAL MEETING NO. 450	% OF TOTAL NOT MEETING NO. 1265	% OF TOTAL MEETING NO. 277	% OF TOTAL NOT MEETING NO. 1203	% OF TOTAL MEETING NO. 339	% OF TOTAL NOT MEETING NO. 813	% OF TOTAL MEETING NO. 85	% OF TOTAL NOT MEETING NO. 1284	% OF TOTAL MEETING NO. 258	% OF TOTAL NOT MEETING NO. 1408	% OF TOTAL MEETING NO. 134	% OF TOTAL NOT MEETING NO. 1116	% OF TOTAL MEETING NO. 426	% OF TOTAL NOT MEETING NO. 606	% OF TOTAL MEETING NO. 38
1	252	16.34	18.80	8.17	19.60	7.04	20.70	5.78	16.21	16.97	17.62	11.80	12.30	5.88	15.73	19.38	17.40	5.22	18.01	11.97	23.10	18.42
2	199	12.91	14.33	8.17	14.61	8.04	14.19	9.79	12.25	15.88	14.13	8.55	10.58	11.76	12.31	15.89	13.71	4.48	13.62	11.03	16.50	7.89
3	190	12.32	11.97	13.52	12.69	11.31	13.64	9.11	10.36	21.30	11.55	15.04	10.46	5.88	12.62	10.85	12.64	8.96	11.92	13.38	15.35	18.42
4	159	10.31	10.46	9.86	10.85	8.79	12.09	6.00	9.09	15.88	10.14	10.91	9.84	7.06	10.75	8.14	10.51	8.21	10.13	10.80	11.22	13.16
5	108	7.00	7.50	5.35	7.46	5.78	8.33	3.78	7.04	6.86	6.65	8.26	7.87	5.88	6.78	8.14	7.03	6.72	7.26	6.34	5.94	7.89
6	176	11.41	10.37	14.93	10.41	14.32	10.53	13.56	12.81	5.05	12.14	8.85	12.92	10.59	11.53	10.85	11.15	14.18	10.13	14.79	10.07	2.63
7	458	29.70	26.56	40.00	24.41	44.72	20.51	52.00	32.25	18.05	27.76	36.58	36.04	52.94	30.30	26.74	27.56	52.24	28.94	31.69	17.82	31.58
TOTAL	1542	99.99	99.99	100.00	100.00	100.00	99.99	100.00	100.00	99.99	99.99	99.99	100.00	99.99	100.00	99.99	100.00	100.00	100.00	100.00	100.00	99.99

[a] Sound recordings, art prints, and slides are omitted as categories in which less than 5% of schools met criteria.

[b] Percentages in each column across may be compared with the percentage in this column to assess whether a size was contributing more or less of its proportionate share of those schools not meeting or meeting a criterion.

[c] Spans 1 and 3 only.

[d] Spans 2, 4, and 5 only.

TABLE 3.16
Comparison of K-6 Schools by Size of Percentages of Total Not Meeting/Meeting Materials Criteria with Percentage Each Size Is of Total Number of K-6 Schools in Study[a]

SIZE	NO. OF SCHOOLS	% OF TOTAL NUMBER OF SCHOOLS IN SIZE[b]	BOOKS BY TITLE		BOOKS BY VOLUME		STUDENT MAGAZINES		NEWSPAPERS		FILMSTRIPS		STUDY PRINTS		GLOBES		PROFESSIONAL BOOKS		PROFESSIONAL MAGAZINES	
			% OF TOTAL NOT MEETING NO. 645	% OF TOTAL MEETING NO. 197	% OF TOTAL NOT MEETING NO. 589	% OF TOTAL MEETING NO. 253	% OF TOTAL NOT MEETING NO. 520	% OF TOTAL MEETING NO. 323	% OF TOTAL NOT MEETING NO. 766	% OF TOTAL MEETING NO. 77	% OF TOTAL NOT MEETING NO. 655	% OF TOTAL MEETING NO. 188	% OF TOTAL NOT MEETING NO. 760	% OF TOTAL MEETING NO. 83	% OF TOTAL NOT MEETING NO. 698	% OF TOTAL MEETING NO. 145	% OF TOTAL NOT MEETING NO. 779	% OF TOTAL MEETING NO. 64	% OF TOTAL NOT MEETING NO. 721	% OF TOTAL MEETING NO. 122
1	87	10.32	12.56	3.05	13.07	3.95	13.27	5.57	10.05	12.99	11.60	5.85	10.92	4.82	10.60	8.97	11.04	2.46	11.65	2.46
2	84	9.96	10.23	9.14	10.36	9.09	10.00	9.91	10.05	9.09	10.84	6.91	9.74	12.05	10.32	8.28	10.53	4.92	10.82	4.92
3	82	9.73	8.99	12.18	9.17	11.07	10.38	8.67	8.22	24.68	9.01	12.23	10.13	6.02	9.89	8.97	10.14	10.66	9.57	10.66
4	76	9.02	10.08	5.58	10.36	5.93	11.52	4.95	8.09	18.18	9.47	7.45	9.34	6.02	9.17	8.28	9.24	9.02	9.02	9.02
5	68	8.07	9.61	3.05	9.68	4.34	10.58	4.02	8.09	7.79	8.24	7.45	8.29	6.02	7.31	11.72	7.96	6.56	8.32	6.56
6	113	13.40	13.49	13.20	14.26	11.46	14.62	11.46	13.19	15.58	14.96	7.98	13.68	10.84	13.61	12.41	13.86	13.11	13.45	13.11
7	333	39.50	35.03	53.81	33.11	54.15	29.62	55.42	42.30	11.69	35.88	52.13	37.89	54.22	39.11	41.38	37.23	53.28	37.17	53.28
TOTAL	843	100.00	99.99	100.00	100.00	99.99	99.99	100.00	99.99	100.00	100.00	100.00	99.99	99.99	100.00	100.00	100.00	100.00	100.00	100.00

[a] Sound recordings and arts prints are omitted as categories in which less than 5% of schools met criteria.

[b] Percentages in each column across may be compared with the percentage in this column to assess whether a size was contributing more or less of its proportionate share of those schools not meeting or meeting a criterion.

TABLE 3.17
Comparison of 7-12 Schools by Size of Percentages of Total Not Meeting/Meeting Materials Criteria with Percentage Each Size Is of Total Number of 7-12 Schools in Study[a]

SIZE	NO. OF SCHOOLS	% OF TOTAL NUMBER OF SCHOOLS IN SIZE[b]	BOOKS BY TITLE		BOOKS BY VOLUME		STUDENT MAGAZINES		NEWSPAPERS		FILMSTRIPS		GLOBES		PROFESSIONAL BOOKS		PROFESSIONAL MAGAZINES		TRANSPARENCIES	
			% OF TOTAL NOT MEETING NO. 427	% OF TOTAL MEETING NO. 123	% OF TOTAL NOT MEETING NO. 435	% OF TOTAL MEETING NO. 115	% OF TOTAL NOT MEETING NO. 458	% OF TOTAL MEETING NO. 92	% OF TOTAL NOT MEETING NO. 388	% OF TOTAL MEETING NO. 162	% OF TOTAL NOT MEETING NO. 438	% OF TOTAL MEETING NO. 112	% OF TOTAL NOT MEETING NO. 477	% OF TOTAL MEETING NO. 73	% OF TOTAL NOT MEETING NO. 488	% OF TOTAL MEETING NO. 62	% OF TOTAL NOT MEETING NO. 296	% OF TOTAL MEETING NO. 254	% OF TOTAL NOT MEETING NO. 517	% OF TOTAL MEETING NO. 33
1	117	21.27	25.76	5.69	25.75	4.35	25.33	1.09	23.71	15.43	23.52	12.50	18.66	38.36	22.95	8.06	27.03	14.57	21.47	18.18
2	84	15.27	18.50	4.07	18.85	1.74	17.69	3.26	14.69	16.67	17.12	8.04	14.05	23.29	16.60	4.84	16.55	13.78	15.67	9.09
3	87	15.82	15.93	15.45	17.01	11.30	17.47	7.61	13.40	21.60	14.84	19.64	16.14	13.70	16.39	11.29	17.23	14.17	15.86	15.15
4	59	10.73	9.13	16.26	9.89	13.91	11.79	5.43	8.25	16.67	9.59	15.18	11.95	2.74	11.07	8.06	11.49	9.84	10.64	12.12
5	34	6.18	4.92	10.57	5.06	10.43	6.77	3.26	5.67	7.41	5.02	10.71	6.50	4.11	6.35	4.84	5.41	7.09	6.00	9.09
6	58	10.55	7.49	21.14	7.13	23.48	7.42	26.09	14.95	0.00	10.05	12.50	10.90	8.22	9.22	20.97	4.73	17.32	11.22	0.00
7	111	20.18	18.27	26.83	16.32	34.78	13.54	53.26	19.33	22.22	19.86	21.43	21.80	9.59	17.42	41.94	17.57	23.23	19.15	36.36
TOTAL	550	100.00	100.00	100.00	100.00	99.99	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	99.99

[a] Sound recordings, art prints, and slides are omitted as categories in which less than 5% of schools met criteria.

[b] Percentages in each column across may be compared with the percentage in this column to assess whether a size was contributing more or less of its proportionate share of those schools not meeting or meeting a criterion.

TABLE 3.18

Total Numbers and Averages of Materials by Span

		BOOKS - TITLES		BOOKS - VOLUMES		MAGAZINES		NEWSPAPERS		SILENT FILMSTRIPS		SOUND FILMSTRIPS		RECORDINGS	
SPAN	SCHOOLS	TOTAL	AVER-AGE	TOTAL	AVER-AGE	TOTAL	AVER-AGE	TOTAL	AVER-AGE	TOTAL	AVER-AGE	TOTAL	AVER-AGE	TOTAL	AVER-AGE
1	843	3,736,428	4,432	4,119,200	4,886	11,450	14	1,061	1	202,265	240	83,048	99	115,781	137
2	550	3,540,388	6,437	3,751,252	6,821	34,805	63	2,756	5	123,806	225	73,345	133	98,356	179
3	55	270,428	4,917	285,646	5,194	1,358	25	145	3	19,750	359	4,863	88	8,557	156
4	60	298,720	4,979	314,847	5,247	2,128	35	190	3	14,806	247	7,021	117	10,012	167
5	34	230,001	6,765	245,295	7,215	1,666	49	152	4	13,998	412	1,902	56	4,950	146
TOTAL	1,542	8,075,965	5,237	8,716,240	5,653	51,407	33	4,304	3	374,625	243	170,179	110	237,663	154

		STUDY PRINTS		GLOBES		ART PRINTS		PROFESSIONAL BOOKS		PROFESSIONAL MAGAZINES		TRANSPARENCIES		SLIDES		TOTAL STUDENT MATERIAL	
SPAN	SCHOOLS	TOTAL	AVER-AGE	TOTAL	AVER-AGE	TOTAL	AVER-AGE	TOTAL	AVER-AGE	TOTAL	AVER-AGE	TOTAL	AVER-AGE	TOTAL	AVER-AGE	TOTAL	AVER-AGE
1	843	34,087	40	8,151	10	9,239	11	52,191	62	4,712	6	118,519	141	47,534	56	4,646,132	5,511
2	550	20,254	37	1,743	3	15,638	28	48,410	88	6,281	11	149,723	272	209,138	380	4,480,816	8,147
3	55	2,402	44	563	10	953	17	3,322	60	407	7	9,960	181	10,314	188	344,511	6,264
4	60	1,463	24	403	7	1,455	24	3,394	57	616	10	13,916	232	8,440	141	374,686	6,245
5	34	743	22	281	8	888	26	2,154	63	287	8	6,015	177	3,646	107	279,536	8,222
TOTAL	1,542	58,954	38	11,141	7	27,722	18	109,200	71	12,338	8	298,423	194	279,072	181	10,229,730	6,634

TABLE 3.19
Total Numbers and Averages of Materials for
Each Span with Detail by Size

			BOOKS - TITLES		BOOKS - VOLUMES		MAGAZINES		NEWSPAPERS		SILENT FILMSTRIPS		SOUND FILMSTRIPS		RECORDINGS	
SPAN	SIZE	COUNT	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE
1	1	87	285,295	3,279.3	303,568	3,489.3	918	10.6	73	0.84	17,297	198.8	2,293	26.4	5,678	65.3
	2	84	356,450	4,243.5	382,788	4,557.0	1,042	12.4	83	0.99	19,879	236.7	3,797	45.2	7,107	84.6
	3	82	367,507	4,481.8	398,401	4,858.5	1,018	12.4	139	1.70	28,473	347.2	4,911	59.9	10,269	125.2
	4	76	306,721	4,035.8	326,356	4,294.2	885	11.6	92	1.21	17,420	229.2	4,686	61.7	8,047	105.9
	5	68	233,901	3,439.7	259,606	3,817.7	700	10.3	82	1.21	17,044	250.6	4,395	64.6	7,696	113.2
	6	113	480,814	4,255.0	536,093	4,744.2	1,546	13.7	324	2.87	15,773	139.6	5,999	53.1	13,084	115.8
	7	333	1,705,741	5,122.3	1,912,388	5,742.9	5,341	16.0	268	8.80	86,379	259.4	56,967	171.1	63,907	191.1
TOTAL		843	3,736,428	4,432.3	4,119,200	4,886.4	11,450	13.6	1,061	1.26	202,265	239.9	83,048	98.5	115,788	137.4

			BOOKS - TITLES		BOOKS - VOLUEMS		MAGAZINES		NEWSPAPERS		SILENT FILMSTRIPS		SOUND FILMSTRIPS		RECORDINGS	
SPAN	SIZE	COUNT	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE
2	1	117	523,264	4,472.3	526,101	4,496.6	4,809	41.1	502	4.29	21,130	180.6	5,031	43.0	12,163	104.0
	2	84	388,724	4,627.7	405,724	4,830.4	4,362	51.9	416	4.95	13,470	160.4	3,983	47.4	7,867	93.0
	3	87	479,786	5,514.8	501,120	5,760.0	5,401	62.1	458	5.26	20,315	233.5	6,249	71.8	10,552	121.3
	4	59	367,711	6,232.4	388,884	6,591.3	3,925	66.5	336	5.69	14,237	241.3	5,917	100.3	8,215	139.2
	5	34	215,639	6,342.3	220,058	6,472.3	2,233	65.7	172	5.06	10,557	310.5	4,991	146.8	7,518	221.1
	6	58	457,098	7,881.0	492,427	8,490.1	4,801	82.8	329	5.67	12,648	218.1	12,544	216.3	11,005	189.7
	7	111	1,108,166	9,983.5	1,221,408	11,003.7	9,274	83.5	543	4.89	31,449	283.3	34,630	312.0	41,036	369.7
TOTAL		550	3,540,388	6,437.1	3,751,252	6,820.5	34,805	63.3	2,756	5.01	123,806	225.1	73,345	133.4	98,356	178.8

			BOOKS - TITLES		BOOKS - VOLUMES		MAGAZINES		NEWSPAPERS		SILENT FILMSTRIPS		SOUND FILMSTRIPS		RECORDINGS	
SPAN	SIZE	COUNT	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE
3	1	18	87,698	4,872.1	90,955	5,053.1	293	16.3	41	2.28	5,264	292.4	449	24.9	1,913	106.3
	2	12	52,929	4,410.7	56,796	4,733.0	267	22.3	36	3.00	5,404	450.3	541	45.1	1,157	96.4
	3	8	39,152	4,894.0	39,498	4,937.3	205	26.1	19	2.38	3,112	389.0	615	76.9	1,358	169.8
	4	10	39,819	3,981.9	44,707	4,470.7	267	26.7	20	2.00	3,488	348.8	2,124	212.4	1,967	196.7
	5	1	6,790	6,790.0	7,057	7,057.0	51	51.0	5	5.00	920	920.0	570	570.0	570	570.0
	6	1	8,000	8,000.0	9,000	9,000.0	12	12.0	3	3.00	550	550.0	60	60.0	100	100.0
	7	5	36,040	7,208.0	37,633	7,526.6	263	52.6	21	4.20	1,012	202.4	504	100.8	1,492	298.4
TOTAL		55	270,428	4,916.9	285,646	5,193.6	1,358	24.7	145	2.64	19,750	359.1	4,863	88.4	8,557	155.6

TABLE 3.19 con't.

			BOOKS - TITLES		BOOKS - VOLUMES		MAGAZINES		NEWSPAPERS		SILENT FILMSTRIPS		SOUND FILMSTRIPS		RECORDINGS	
SPAN	SIZE	COUNT	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE
4	1	5	20,138	4,027.6	22,162	4,432.4	112	22.4	20	4.00	758	151.6	90	18.0	767	153.4
	2	11	41,377	3,761.5	42,989	3,908.1	259	23.5	33	3.00	1,550	140.9	518	47.1	523	47.5
	3	13	52,857	4,065.9	55,992	4,307.1	400	30.8	43	3.31	3,225	248.1	1,123	86.4	1,329	102.2
	4	13	62,163	4,781.8	64,973	4,997.9	482	37.1	39	3.00	4,318	332.2	1,580	121.5	2,673	205.6
	5	5	21,618	4,323.6	22,465	4,493.0	188	63.5	14	3.50	1,393	348.3	358	89.5	634	158.5
	6	4	29,025	7,256.3	30,025	7,506.3	254	63.5	18	4.50	1,317	329.3	276	69.0	2,393	598.3
	7	9	71,542	7,949.1	76,241	8,471.2	433	48.1	23	2.56	2,245	249.4	3,076	341.8	1,693	188.1
TOTAL		60	298,720	4,978.7	314,847	5,247.2	2,128	35.4	190	3.17	14,806	246.8	7,021	117.0	10,012	166.9

			BOOKS - TITLES		BOOKS - VOLUMES		MAGAZINES		NEWSPAPERS		SILENT FILMSTRIPS		SOUND FILMSTRIPS		RECORDINGS	
SPAN	SIZE	COUNT	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE
5	1	25	168,922	6,756.9	181,027	7,241.1	1,144	45.8	102	4.08	11,807	472.3	1,655	66.2	4,337	173.5
	2	8	53,653	6,706.6	56,442	7,055.3	458	57.3	46	5.75	1,891	236.4	247	30.9	613	76.6
	3	0	0	00.0	0	00.0	0	00.0	0	0.00	0	00.0	0	00.0	0	00.0
	4	1	7,426	7,426.0	7,826	7,826.0	64	64.0	4	4.00	300	300.0	0	00.0	0	00.0
	5	0	0	00.0	0	00.0	0	00.0	0	0.00	0	00.0	0	00.0	0	00.0
	6	0	0	00.0	0	00.0	0	00.0	0	0.00	0	00.0	0	00.0	0	00.0
	7	0	0	00.0	0	00.0	0	00.0	0	0.00	0	00.0	0	00.0	0	00.0
TOTAL		34	230,001	6,764.7	245,295	7,214.6	1,666	49.0	152	4.47	13,998	411.7	1,902	55.9	4,950	145.6
GRAND TOTAL		1,542	8,075,965	5,237.3	8,716,240	5,652.6	51,407	33.3	4,304	2.79	374,625	242.9	170,179	110.4	237,633	154.1

			STUDY PRINTS		GLOBES		ART PRINTS		PROFESSIONAL BOOKS		PROFESSIONAL MAGAZINES		TRANSPARENCIES		SLIDES	
SPAN	SIZE	COUNT	TOTAL	AVERAGF	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE
1	1	87	1,467	16.9	552	6.3	463	5.3	2,997	34.5	323	3.7	9,428	108.4	3,783	43.5
	2	84	2,901	34.5	719	8.6	914	10.9	3,244	38.6	410	4.9	12,791	152.3	3,192	38.0
	3	82	1,974	24.1	809	9.9	948	11.6	4,100	50.0	469	5.7	10,656	130.0	4,779	58.3
	4	76	2,720	35.8	681	9.0	497	6.5	3,798	50.0	397	5.2	5,362	70.6	3,293	43.3
	5	68	2,648	38.9	638	9.4	986	14.5	3,235	47.6	500	7.4	6,717	98.8	2,036	29.9
	6	113	2,541	22.5	1,055	9.3	611	5.4	4,799	42.5	609	5.4	12,363	109.4	5,704	50.5
	7	333	19,836	59.6	3,697	11.1	4,820	14.5	30,018	90.1	2,004	6.0	61,202	183.8	24,747	74.3
TOTAL		843	34,087	40.4	8,151	9.7	9,239	11.0	52,191	61.9	4,712	5.6	118,519	140.6	47,534	56.4

TABLE 3.19 con't.

			STUDY PRINTS		GLOBES		ART PRINTS		PROFESSIONAL BOOKS		PROFESSIONAL MAGAZINES		TRANSPARENCIES		SLIDES	
SPAN	SIZE	COUNT	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE
2	1	117	2,231	19.1	420	3.6	1,376	11.8	5,971	51.0	807	6.9	23,227	198.5	18,142	155.1
	2	84	1,528	18.2	259	3.1	2,835	28.4	4,806	54.0	643	8.0	14,378	173.5	14,608	173.9
	3	87	1,336	15.4	282	3.2	2,092	24.0	5,782	66.5	812	9.3	23,295	267.8	27,887	320.5
	4	59	799	13.5	151	2.6	855	14.5	4,508	76.4	520	8.8	21,037	356.6	17,822	302.1
	5	34	1,004	29.5	81	2.4	489	14.4	2,719	80.0	444	13.1	9,326	274.3	10,833	318.6
	6	58	2,311	39.8	192	3.3	1,653	28.5	7,581	130.7	991	17.1	11,890	205.0	35,686	615.3
	7	111	11,045	99.5	358	3.2	6,338	57.1	17,043	153.5	2,064	18.6	46,570	419.5	84,160	758.2
TOTAL		550	20,254	36.8	1,743	3.2	15,638	28.4	48,410	88.0	6,281	11.4	149,723	272,2	209,138	380.3

			STUDY PRINTS		GLOBES		ART PRINTS		PROFESSIONAL BOOKS		PROFESSIONAL MAGAZINES		TRANSPARENCIES		SLIDES	
SPAN	SIZE	COUNT	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE
3	1	18	619	34.4	178	9.9	409	22.7	762	42.3	106	5.9	2,150	119.4	1,525	84.7
	2	12	256	21.3	104	8.7	207	22.5	652	54.3	61	5.1	3,981	331.8	1,367	113.9
	3	8	113	14.1	62	7.8	72	9.0	490	61.3	86	10.8	884	110.5	5,465	683.1
	4	10	644	64.4	40	4.0	10	1.0	800	80.0	77	7.7	2,040	204.0	1,250	125.0
	5	1	435	435.0	21	21.0	0	00.0	83	83.0	4	4.0	300	300.0	300	300.0
	6	1	25	25.0	60	60.0	35	35.0	300	300.0	6	6.0	40	40.0	0	00.0
	7	5	310	62.0	98	19.6	157	31.4	235	47.0	67	13.4	565	113.0	407	81.4
TOTAL	0	55	2,402	43.7	563	10.2	953	17.3	3,322	60.4	407	7.4	9,960	181.1	10,314	187.5

			STUDY PRINTS		GLOBES		ART PRINTS		PROFESSIONAL BOOKS		PROFESSIONAL MAGAZINES		TRANSPARENCIES		SLIDES	
SPAN	SIZE	COUNT	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE
4	1	5	9	1.8	8	1.6	100	20.0	246	49.2	17	3.4	68	13.6	677	135.4
	2	11	408	37.1	70	6.4	257	23.4	555	50.5	64	5.8	2,165	196.8	1,070	97.3
	3	13	357	27.5	70	5.4	540	41.5	637	49.0	89	6.8	3,341	257.0	1,396	107.4
	4	13	539	41.5	88	6.8	272	20.9	954	73.4	153	11.8	5,434	418.0	1,721	132.4
	5	5	26	5.2	19	3.8	171	34.2	65	13.0	38	8.6	240	48.0	49	9.8
	6	4	65	16.3	68	17.0	25	6.3	273	68.3	44	11.0	1,426	356.5	1,100	275.0
	7	9	64	7.1	80	8.9	90	10.0	664	73.8	211	23.4	1,242	138.0	2,427	269.7
TOTAL		60	1,468	24.4	403	6.7	1,455	24.3	3,394	56.6	616	10.3	13,916	231.9	8,440	140.7

			STUDY PRINTS		GLOBES		ART PRINTS		PROFESSIONAL BOOKS		PROFESSIONAL MAGAZINES		TRANSPARENCIES		SLIDES	
SPAN	SIZE	COUNT	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE
5	1	25	472	18.9	218	8.7	820	32.8	1,718	68.7	199	8.0	5,538	221.5	3,274	131.0
	2	8	261	32.6	62	7.8	68	8.5	383	47.9	75	9.4	377	47.1	372	46.5
	3	0	0	00.0	0	0.0	0	00.0	0	00.0	0	00.0	0	00.0	0	00.0
	4	1	10	10.0	1	1.0	0	00.0	53	53.0	13	13.0	100	100.0	0	00.0
	5	0	0	00.0	0	0.0	0	00.0	0	00.0	0	00.0	0	00.0	0	00.0
	6	0	0	00.0	0	0.0	0	00.0	0	00.0	0	00.0	0	00.0	0	00.0
	7	0	0	00.0	0	0.0	0	00.0	0	00.0	0	00.0	0	00.0	0	00.0
TOTAL		34	743	21.9	281	8.3	888	26.1	2,154	63.4	287	8.4	6,015	176.9	3,646	107.2
GRAND TOTAL		1,542	58,954	38.2	11,141	7.2	27,722	18.0	109,200	70.8	12,338	8.0	298,423	193.5	279,072	181.0

TABLE 3.20
Total Numbers and Averages of Materials by Size

		BOOKS - TITLES		BOOKS - VOLUMES		STUDENT MAGAZINES		NEWSPAPERS		SILENT FILMSTRIPS		SOUND FILMSTRIPS		SOUND RECORDINGS	
SIZE	SCHOOL COUNT	TOTAL	AVER-AGE	TOTAL	AVER-AGE	TOTAL	AVER-AGE	TOTAL	AVER-AGE	TOTAL	AVER-AGE	TOTAL	AVER-AGE	TOTAL	AVER-AGE
1	252	1,085,317	4,306.8	1,123,813	4,459.6	7,276	28.9	738	2.93	56,256	223.2	9,518	37.8	24,858	98.6
2	199	893,131	4,488.1	944,739	4,747.4	6,388	32.1	614	3.09	42,194	212.0	9,086	45.7	17,267	86.8
3	190	939,302	4,943.7	995.001	5,236.9	7,024	37.0	659	3.47	55,125	290.1	12,898	67.9	23,508	123.7
4	159	783,840	4,929.8	832,746	5,237.4	5,623	35.4	491	3.09	39,763	250.1	14,307	90.0	20,902	131.5
5	108	477,948	4,425.4	509,186	4,714.7	3,172	29.4	273	2.53	29,914	277.0	10,314	95.5	16,418	152.0
6	176	974,937	5,539.4	1,067,545	6,065.6	6,613	37.6	674	3.83	30.288	172.1	18,879	107.3	26,582	151.0
7	458	2,921,489	6,378.8	3,247,670	7,091.0	15,311	33.4	855	1.87	121,085	264.4	95,177	207.8	108,128	236.1
TOTAL	1,542	8,075,965	5,237.3	8,716,240	5,652.6	51,407	33.3	4,304	2.79	374,625	242.9	170,179	110.4	273,633	154.1

		STUDY PRINTS		GLOBES		ART PRINTS		PROFESSIONAL BOOKS		PROFESSIONAL MAGAZINES		TRANSPARENCIES		SLIDES	
SIZE	SCHOOL	TOTAL	AVER-AGE	TOTAL	AVER-AGE	TOTAL	AVER-AGE	TOTAL	AVER-AGE	TOTAL	AVER-AGE	TOTAL	AVER-AGE	TOTAL	AVER-AGE
1	252	4,798	19.0	1,376	5.5	3,168	12.6	11,694	46.4	1,452	5.8	40,411	160.4	27,401	108.7
2	199	5,354	26.9	1,214	6.1	4,281	21.5	9,640	48.4	1,253	6.3	33,692	169.3	20,609	103.6
3	190	3,780	19.9	1,223	6.4	3,652	19.2	11,009	57.9	1,456	7.7	38,176	200.9	39,527	208.0
4	159	4,712	29.6	961	6.0	1,634	10.3	10,113	63.6	1,160	7.3	33,937	213.4	24,086	151.5
5	108	4,113	38.1	759	7.0	1,646	15.2	6,102	56.5	986	9.1	16,583	153.5	13,218	122.4
6	176	4,942	28.1	1,375	7.8	2,324	13.2	12,953	73.6	1,650	9.4	25,719	146.1	42,490	241.4
7	458	31,255	68.2	4,233	9.2	11,405	24.9	47,960	104.7	4,346	9.5	109,579	239.3	111,741	244.0
TOTAL	1,542	58,954	38.2	11,141	7.2	27,722	18.0	109,200	70.8	12,338	8.0	298,423	193.5	279,072	181.0

TABLE 3.21
Total Numbers and Averages of Materials for
Each Size with Detail by Span

			BOOKS - TITLES		BOOKS - VOLUMES		MAGAZINES		NEWSPAPERS		SILENT FILMSTRIPS		SOUND FILMSTRIPS		RECORDINGS	
SIZE	SPAN	SCHOOL COUNT	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE
1	1	87	285,295	3279.3	303,568	3489.3	918	10.6	73	0.84	17,297	198.8	2,293	26.4	5,678	65.3
	2	117	523,264	4472.3	526,101	4496.6	4,809	41.1	502	4.29	21,130	180.6	5,031	43.0	12,163	104.0
	3	18	87,698	4872.1	90,955	5053.1	293	16.3	41	2.28	5,264	292.4	449	24.9	1,913	106.3
	4	5	20,138	4027.6	22,162	4432.4	112	22.4	20	4.00	758	151.6	90	18.0	767	153.4
	5	25	168,922	6756.9	181,027	7241.1	1,144	45.8	102	4.08	11,807	472.3	1,655	66.2	4,337	173.5
	TOTAL	252	1,085,317	4306.8	1,123,813	4459.6	7,276	28.9	738	2.93	56,256	223.2	9,518	37.8	24,858	98.6
2	1	84	356,450	4243.5	382,788	4557.0	1,042	12.4	83	0.99	19,879	236.7	3,797	45.2	7,107	84.6
	2	84	388,724	4627.7	405,724	4830.4	4,362	51.9	416	4.95	13,470	160.4	3,983	47.4	7,867	93.7
	3	12	52,929	4410.7	56,796	4733.0	267	22.3	36	3.00	5,404	450.3	541	45.1	1,157	96.4
	4	11	41,377	3761.5	42,989	3908.1	259	23.5	33	3.00	1,550	140.9	518	47.1	523	47.5
	5	8	53,653	6706.6	56,442	7055.3	458	57.3	46	5.75	1,891	236.4	247	30.9	613	76.6
	TOTAL	199	893,131	4488.1	944,739	4747.4	6,388	32.1	614	3.09	42,194	212.0	9,086	45.7	17,267	86.8
3	1	82	367,507	4481.8	398,401	4858.5	1,018	12.4	139	1.70	28,473	347.2	4,911	59.9	10,269	125.2
	2	87	479,786	5514.8	501,120	5760.0	5,401	62.1	458	5.26	20,315	233.5	6,249	71.8	10,552	121.3
	3	9	39,152	4894.0	39,498	4937.3	205	26.1	19	2.38	3,112	389.0	615	76.9	1,358	169.8
	4	13	52,857	4065.9	55,992	4307.1	400	30.8	43	3.31	3,225	248.1	1,123	86.4	1,329	102.2
	5	0	0	0.0	0	0.0	0	0.0	0	0.00	0	0.0	0	0.0	0	0.0
	TOTAL	190	939,302	4943.7	995,011	5236.9	7,024	37.0	659	3.47	55,125	290.1	12,898	67.9	23,508	123.7
4	1	76	306,721	4035.8	326,356	4294.2	885	11.6	92	1.21	17,420	229.2	4,686	61.7	8,047	105.9
	2	59	367,711	6232.4	388,884	6591.3	3,925	66.5	336	5.69	14,237	241.3	5,917	100.3	8,215	139.2
	3	10	39,819	3981.9	44,707	4470.7	267	26.7	20	2.00	3,488	348.8	2,124	212.4	1,967	196.7
	4	13	62,163	4781.8	64,973	4997.9	482	37.1	39	3.00	4,318	332.2	1,580	121.5	2,673	205.6
	5	1	7,426	7426.0	7,826	7826.0	64	64.0	4	4.00	300	300.0	0	0.0	0	0.0
	TOTAL	159	783,840	4929.8	832,746	5237.4	5,623	35.4	491	3.09	39,763	250.1	14,307	90.0	20,902	131.5

TABLE 3.21 con't.

			BOOKS - TITLES		BOOKS - VOLUMES		MAGAZINES		NEWSPAPERS		SILENT FILMSTRIPS		SOUND FILMSTRIPS		RECORDINGS	
SIZE	SPAN	SCHOOL COUNT	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE
5	1	68	233,901	3439.7	259,606	3817.7	700	10.3	82	1.21	17,044	250.6	4,395	64.6	7,696	113.2
	2	34	215,639	6342.3	220,058	6472.3	2,233	65.7	172	5.06	10,557	310.5	4,991	146.8	7,518	221.1
	3	1	6,790	6790.0	7,057	7057.0	51	51.0	5	5.00	920	920.0	570	570.0	570	570.0
	4	5	21,618	4323.6	22,465	4493.0	188	63.5	14	3.50	1,393	348.3	358	89.5	634	158.5
	5	0	0	0.0	0	0.0	0	0.0	0	0.00	0	0.0	0	0.0	0	0.0
	TOTAL	108	477,948	4425.4	509,186	4714.7	3,172	29.4	273	2.53	29,914	277.0	10,314	95.5	16,418	152.0
6	1	113	480,814	4255.0	536,093	4744.2	1,546	13.7	324	2.87	15,773	139.6	5,999	53.1	13,084	115.8
	2	58	457,098	7881.0	492,427	8490.1	4,801	82.8	329	5.67	12,648	218.1	12,544	216.3	11,005	189.7
	3	1	8,000	8000.0	9,000	9000.0	12	12.0	3	3.00	550	550.0	60	60.0	100	100.0
	4	4	27,025	7256.3	30,025	7506.3	254	63.5	18	4.50	1,317	329.3	276	69.0	2,393	598.3
	5	0	0	0.0	0	0.0	0	0.0	0	0.00	0	0.0	0	0.0	0	0.0
	TOTAL	176	974,937	5539.4	1,067,545	6065.6	6,613	37.6	674	3.83	30,288	172.1	18,879	107.3	26,582	151.0
7	1	333	1,705,741	5122.3	1,912,388	5742.9	5,341	16.0	268	0.80	86,379	259.4	56,967	171.1	63,907	191.1
	2	111	1,108,166	9983.5	1,221,408	11003.7	9,274	83.5	543	4.89	31,449	283.3	34,630	312.0	41,036	369.7
	3	5	36,040	7208.0	37,633	7526.6	263	52.6	21	4.20	1,012	202.4	504	100.8	1,492	298.4
	4	9	71,542	7949.1	76,241	8471.2	433	48.1	23	2.56	2,245	249.4	3,076	341.8	1,693	188.1
	5	0	0	0.0	0	0.0	0	0.0	0	0.00	0	0.0	0	0.0	0	0.0
	TOTAL	458	2,921,489	6378.8	3,247,670	7091.0	15,311	33.4	855	1.87	121,085	264.4	95,177	207.8	108,128	236.1
GRAND	TOTAL	1,542	8,075,965	5237.3	8,716,240	5652.6	51,407	33.3	4,304	2.79	374,625	242.9	170.179	110.4	273,633	154.1

TABLE 3.21 con't.

			STUDY PRINTS		GLOBES		ART PRINTS		PROFESSIONAL BOOKS		PROFESSIONAL MAGAZINES		TRANSPARENCIES		SLIDES	
SIZE	SPAN	SCHOOL COUNT	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE
1	1	87	1,467	16.9	552	6.3	463	5.3	2,997	34.5	323	3.7	9,428	108.4	3,783	43.5
	2	117	2,231	19.1	420	3.6	1,376	11.8	5,971	51.0	807	6.9	23,227	198.5	18,142	155.1
	3	18	619	34.4	178	9.9	409	22.7	762	42.3	106	5.9	2,150	119.4	1,525	84.7
	4	5	9	1.8	8	1.6	100	20.0	246	49.2	17	3.4	68	13.6	677	135.4
	5	25	472	18.9	218	8.7	820	32.8	1,718	68.7	199	8.0	5,538	221.5	3,274	131.0
	TOTAL	252	4,798	19.0	1,376	5.5	3,168	12.6	11,694	46.4	1,452	5.8	40,411	160.4	27,401	108.7
2	1	84	2,901	34.5	719	8.6	914	10.9	3,244	38.6	410	4.9	12,791	152.3	3,192	38.0
	2	84	1,528	18.2	259	3.1	2,835	28.4	4,806	54.0	643	8.0	14,378	173.5	14,608	173.9
	3	12	256	21.3	104	8.7	207	22.5	652	54.3	61	5.1	3,981	331.8	1,367	113.9
	4	11	408	37.1	70	6.4	257	23.4	555	50.5	64	5.8	2,165	196.8	1,070	97.3
	5	8	261	32.6	62	7.8	68	8.5	383	47.9	75	9.4	377	47.1	372	46.5
	TOTAL	199	5,354	26.9	1,214	6.1	4,281	21.5	9,640	48.4	1,253	6.3	33,692	169.3	20,609	103.6
3	1	82	1,974	24.1	809	9.9	948	11.6	4,100	50.0	469	5.7	10,656	130.0	4,779	58.3
	2	87	1,336	15.4	282	3.2	2,092	24.0	5,782	66.5	812	9.3	23,295	267.8	27,887	320.5
	3	8	113	14.1	62	7.8	72	9.0	490	61.3	86	10.8	884	110.5	5,465	683.1
	4	13	357	27.5	70	5.4	540	41.5	637	49.0	89	6.8	3,341	257.0	1,396	107.4
	5	0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	TOTAL	190	3,780	19.9	1,223	6.4	3,652	19.2	11,009	57.9	1,456	7.7	38,176	200.9	39,527	208.0
4	1	76	2,720	35.8	681	9.0	497	6.5	3,798	50.0	397	5.2	5,362	70.6	3,293	43.3
	2	59	799	13.5	151	2.6	855	14.5	4,508	76.4	520	8.8	21,037	356.6	17,822	302.1
	3	10	644	64.4	40	4.0	10	1.0	800	80.0	77	7.7	2,040	204.0	1,250	125.0
	4	13	539	41.5	88	6.8	272	20.9	954	73.4	153	11.8	5,434	418.0	1,721	132.4
	5	1	10	10.0	1	1.0	0	0.0	53	53.0	13	13.0	100	100.0	0	0.0
	TOTAL	159	4,712	29.6	961	6.0	1,634	10.3	10,113	63.6	1,160	7.3	33,937	213.4	24,086	151.5

TABLE 3.21 con't.

			STUDY PRINTS		GLOBES		ART PRINTS		PROFESSIONAL BOOKS		PROFESSIONAL MAGAZINES		TRANSPARNECIES		SLIDES	
SIZE	SPAN	SCHOOL COUNT	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE
5	1	68	2,648	38.9	638	9.4	986	14.5	3,235	47.6	500	7.4	6,717	98.8	2,036	29.9
	2	34	1,004	29.5	81	2.4	489	14.4	2,719	80.0	444	13.1	9,326	274.3	10,833	318.6
	3	1	435	435.0	21	21.0	0	0.0	83	83.0	4	4.0	300	300.0	300	300.0
	4	5	26	5.2	19	3.8	171	34.2	65	13.0	38	8.6	240	48.0	49	9.8
	5	0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	TOTAL	108	4,113	38.1	759	7.0	1,646	15.2	6,102	56.5	986	9.1	16,583	153.5	13,218	122.4
6	1	113	2,541	22.5	1,055	9.3	611	5.4	4,799	42.5	609	5.4	12,363	109.4	5,704	50.5
	2	58	2,311	39.8	192	3.3	1,653	28.5	7,581	130.7	991	17.1	11,890	205.0	35,686	615.3
	3	1	25	25.0	60	60.0	35	35.0	300	300.0	6	6.0	40	40.0	0	0.0
	4	4	65	16.3	68	17.0	25	6.3	273	68.3	44	11.0	1,426	356.5	1,100	275.0
	5	0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	TOTAL	176	4,942	28.1	1,375	7.8	2,324	13.2	12,953	73.6	1,650	9.4	25,719	146.1	42,490	241.4
7	1	333	19,836	59.6	3,697	11.1	4,820	14.5	30,018	90.1	2,004	6.0	61,202	183.8	24,747	74.3
	2	111	11,045	99.5	358	3.2	6,338	57.1	17,043	153.5	2,064	18.6	46,570	419.5	84,160	758.2
	3	5	310	62.0	98	19.6	157	31.4	235	47.0	67	13.4	565	113.0	407	81.4
	4	9	64	7.1	80	8.9	90	10.0	664	73.8	211	23.4	1,242	138.0	2,427	269.7
	5	0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	TOTAL	458	31,255	68.2	4,233	9.2	11,405	24.9	47,960	104.7	4,346	9.5	109,579	239.3	111,741	244.0
GRAND	TOTAL	1,542	58,954	38.2	11,141	7.2	27,722	18.0	109,200	70.8	12,338	8.0	298,423	193.5	279,072	181.0

TABLE 3.22
Ratio of Materials to Students and Teachers

				BOOKS - TITLES			BOOKS - VOLUMES			MAGAZINES			NEWSPAPERS		
SPAN	ENROLL-MENT	TEACHERS	SCHOOLS	TOTAL	STUDENT RATIO	TEACHER RATIO	TOTAL	STUDENT RATIO	TEACHER RATIO	TOTAL	STUDENT RATIO	TEACHER RATIO	TOTAL	STUDENT RATIO	TEACHER RATIO
1	238,628	12,062.4	843	3,736,428	15.66	309.76	4,119,200	17.26	341.49	11,450	.048	.949	1,061	.004	.088
2	254,925	14,936.3	550	3,540,388	13.89	237.03	3,751,252	14.72	251.15	34,805	.137	2.330	2,756	.011	.185
3	20,957	1,217.5	55	270,428	12.90	222.12	285,646	13.63	234.62	1,358	.065	1.115	145	.007	.119
4	22,434	1,293.0	60	298,720	13.32	231.03	314,847	14.03	243.50	2,128	.095	1.646	190	.009	.147
5	12,236	823.2	34	230,001	18.80	279.40	245,295	20.05	297.98	1,666	.136	2.024	152	.012	.185
TOTAL	549,180	30,332.4	1,542	8,075,965	14.71	266.25	8,716,240	15.87	287.36	51,407	.094	1.695	4,304	.008	.142

				SILENT FILMSTRIPS			SOUND FILMSTRIPS			ALL FILMSTRIPS			RECORDINGS		
SPAN	ENROLL-MENT	TEACHERS	SCHOOLS	TOTAL	STUDENT RATIO	TEACHER RATIO	TOTAL	STUDENT RATIO	TEACHER RATIO	TOTAL	STUDENT RATIO	TEACHER RATIO	TOTAL	STUDENT RATIO	TEACHER RATIO
1	238,628	12,062.4	843	202,265	.848	16.77	83,048	.348	6.885	285,313	1.196	23.65	115,788	.485	9.599
2	254,925	14,936.3	550	123,806	.486	8.29	73,345	.288	4.911	197,151	.773	13.20	98,356	.386	6.585
3	20,957	1,217.5	55	19,750	.942	16.22	4,863	.232	3.994	24,613	1.175	20.22	8,557	.408	7.028
4	22,434	1,293.0	60	14,806	.660	11.45	7,021	.313	5.430	21,827	.973	16.88	10,012	.446	7.743
5	12,236	823.2	34	13,998	1.144	17.00	1,902	.155	2.311	15,900	1.299	19.31	4,950	.405	6.013
TOTAL	549,180	30,332.4	1,542	374,625	.682	18.43	170,179	.310	5.611	544,804	.992	19.05	237,633	.433	7.834

TABLE 3.22 Con't.

				STUDY PRINTS			GLOBES			ART PRINTS			PROFESSIONAL BOOKS		PROFESSIONAL MAGAZINES	
SPAN	ENROLL-MENT	TEACHERS	SCHOOLS	TOTAL	STUDENT RATIO	TEACHER RATIO	TOTAL	STUDENT RATIO	TEACHER RATIO	TOTAL	STUDENT RATIO	TEACHER RATIO	TOTAL	TEACHER RATIO	TOTAL	TEACHER RATIO
1	238,628	12,062.4	843	34,087	.143	2.826	8,151	.034	.676	9,239	.039	.766	52,191	4.327	4,712	.391
2	254,925	14,936.3	550	20,254	.080	1.356	1,743	.007	.117	15,638	.061	1.047	48,410	3.241	6,281	.421
3	20,957	1,217.5	55	2.402	.115	1.973	563	.027	.462	953	.046	.783	3,322	2.735	407	.334
4	22,434	1,293.0	60	1,468	.065	1.135	403	.018	.312	1,455	.065	1.125	3,394	2.623	616	.476
5	12,236	823.2	34	743	.061	.903	281	.023	.341	888	.726	1.079	2,154	2.617	287	.349
TOTAL	549,180	30,332.4	1,542	58,954	.071	1.944	11,141	.020	.367	27,722	.051	.914	109,200	3.600	12,338	.407

				TRANSPARENCIES			SLIDES			TOTAL STUDENT COLLECTION		
SPAN	ENROLL-MENT	TEACHERS	SCHOOLS	TOTAL	STUDENT RATIO	TEACHER RATIO	TOTAL	STUDENT RATIO	TEACHER RATIO	TOTAL	STUDENT RATIO	TEACHER RATIO
1	238,628	12,062.4	843	118,519	.497	9.826	47,534	.199	3.941	4,750,342	19.91	393.81
2	254,925	14,936.3	550	149,723	.587	10.024	209,138	.820	14.002	4,480,816	17.58	300.00
3	20,957	1,217.5	55	9,960	.475	8.181	10,314	.492	8.472	344,511	16.44	282.97
4	22,434	1,293.0	60	13,916	.620	10.763	8,440	.376	6.528	364,674	16.26	282.04
5	12,236	823.2	34	6,015	.492	7.307	3,646	.298	4.429	279,536	22.85	339.57
TOTAL	549,180	30,332.4	1,542	298,423	.543	9.838	279,072	.508	9.201	10,229,770	18.63	337.26

TABLE 4

Plan For Progress
Phase I Guidelines for Equipment

		PHASE I	
		K-6	7-12
3a	16mm Projectors	greater of 1 per 10 teaching stations or 1 per floor + 1	1 per 10 teaching stations +2
3b	Slide Projectors	1 per building	1 per 10 teaching stations +1
3c	Slide Viewers	1 per center	
3d 3e	Silent FS Projectors FS/Slide Projectors	1 per 10 teaching stations +1	
3f	Automatic Sound Filmstrip Projectors	no standard - do not count	
3g	Filmstrip Viewers	1 per 2 teaching stations	1 per 2 teaching stations +1
3h	Overhead Projectors	1 per 2 teaching stations +1	1 per 2 teaching stations +2
3i	Opaque Projectors	1 per floor	1 per floor +1
3j	Television Monitors	1 per floor	
3k	Micro(scope) Projectors	1	
3l	Record Players	K-1 1 per teaching station 2-3 1 per 2 teaching stations 4-6 1 per grade level +1 no center - meet hightest standard	1 per 15 teaching stations +2
3m 3n 3o	Reel Tape Recorders Cassette Recorders Cassette Players	1 per 7 teaching stations +1	1 per 7 teaching stations +1 1 per 5 teaching stations
3p	Projection Carts	Equivalent of 3a + 3b + 3d + 3e + 3f + 3h + 3i + 3j + 3k + 3l	
3q	Listening Stations	1 per floor +1	1 per 15 teaching stations +1
3r	Mounted Screens	1 per 3 teaching stations	
3s	Portable Screens	no standard - do not count	
3t	Copy Machines	1 per center	
3u	Duplicating Machines	1 per center	
3v	VTRs	no standard - do not count	
3w	Wireless Microphones	no standard - do not count	equal to answer for 3v
3x	Microform Readers	no standard - do not count	1 per center
3y	Microform Reader-Printer	no standard - do not count	1 per center

TABLE 4.1
Equipment Guidelines, Span 1, K-6
Statistical Measures of Comparison by Size

	SIZE							
	1	2	3	4	5	6	7	TOTAL
MEAN	7.44	7.68	8.73	8.96	8.63	9.40	9.99	9.09
PERCENTILES								
90	11	11	12	12	12	13	13	12
75	10	9	10	11	10	11	12	11
50 (MEDIAN)	8	8	9	9	9	9	10	9
25	5	6	7	7	7	8	9	7
10	4	4	5	6	5	6	7	6
MODE	10	7	10	8	10	9	11	10

TABLE 4.2
Numbers and Percentages of Elementary Schools Meeting 9 or Fewer or 10 or More Equipment Guidelines by Size

	SCHOOLS MEETING 9 OR FEWER		SCHOOLS MEETING 10 OR MORE	
SIZE CODE	NO.	%	NO.	%
1	64	73.56	23	26.44
2	65	77.38	19	22.62
3	46	56.10	36	43.90
4	44	57.89	32	42.11
5	42	61.76	26	38.24
6	58	51.33	55	48.67
7	126	37.84	207	62.16
TOTAL	445	52.79	398	47.21

TABLE 4.3
Number of Equipment Guidelines Met, Span 1, K-6
by Numbers and Percentages of Schools and by
Cumulative Frequencies and Percentages
(Total possible 16)

	SIZE CODES																															
	1				2				3				4				5				6				7				TOTAL			
NO. OF STANDARDS	NO. OF SCHOOLS	% OF SCHOOLS	CUMULATIVE NO.	CUMULATIVE %	NO. OF SCHOOLS	% OF SCHOOLS	CUMULATIVE NO.	CUMULATIVE %	NO. OF SCHOOLS	% OF SCHOOLS	CUMULATIVE NO.	CUMULATIVE %	NO. OF SCHOOLS	% OF SCHOOLS	CUMULATIVE NO.	CUMULATIVE %	NO. OF SCHOOLS	% OF SCHOOLS	CUMULATIVE NO.	CUMULATIVE %	NO. OF SCHOOLS	% OF SCHOOLS	CUMULATIVE NO.	CUMULATIVE %	NO. OF SCHOOLS	% OF SCHOOLS	CUMULATIVE NO.	CUMULATIVE %	NO. OF SCHOOLS	% OF SCHOOLS	CUMULATIVE NO.	CUMULATIVE %
15	2	2.30	87	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	5	1.50	333	100.00	7	.83	843	100.00
14	0	0.00	85	97.70	0	0.00	0	0.00	0	0.00	0	0.00	1	1.32	76	100.00	0	0.00	0	0.00	4	3.54	113	100.00	15	4.50	328	98.50	20	2.37	836	99.15
13	1	1.15	85	97.70	3	3.57	84	100.00	3	3.66	82	100.00	1	1.32	75	98.68	5	7.35	68	100.00	9	7.96	109	96.46	30	9.01	313	93.99	52	6.17	816	96.80
12	1	1.15	84	96.55	2	2.38	81	96.43	6	7.32	79	96.34	10	13.16	74	97.37	6	8.82	63	92.65	9	7.96	100	88.50	35	10.51	283	84.98	69	8.19	764	90.63
11	6	6.90	83	95.40	7	8.33	79	94.05	11	13.41	73	89.02	9	11.84	64	84.21	4	5.88	57	83.82	15	13.27	91	80.53	63	18.92	248	74.47	115	13.64	695	82.44
10	13	14.94	77	88.51	7	8.33	72	85.71	16	19.51	62	75.61	11	14.47	55	72.37	11	16.18	53	77.94	18	15.93	76	67.26	59	17.72	185	55.56	135	16.01	580	68.80
9	10	11.49	64	73.56	15	17.86	65	77.38	13	15.85	46	56.10	10	13.16	44	57.89	10	14.71	42	61.76	19	16.81	58	51.33	49	14.71	126	37.84	126	14.95	445	52.79
8	12	13.19	54	62.07	9	10.71	50	59.52	7	8.54	33	40.24	13	17.11	34	44.74	10	14.71	32	47.06	14	12.39	39	34.51	33	9.91	77	23.12	98	11.63	319	37.84
7	10	11.49	42	48.28	18	21.43	41	48.81	12	14.63	26	31.71	11	14.47	21	27.63	7	10.29	22	32.35	11	9.73	25	22.12	20	6.01	44	13.21	89	10.56	221	26.22
6	10	11.49	32	36.78	11	13.10	23	27.38	4	4.88	14	17.07	6	7.89	10	13.16	8	11.76	15	22.06	8	7.08	14	12.39	9	2.70	24	7.21	56	6.64	132	13.66
5	7	8.05	22	25.29	3	3.57	12	14.29	6	7.32	10	12.19	2	2.63	4	5.26	2	2.94	7	10.29	5	4.42	6	5.31	5	1.50	15	4.50	30	3.56	76	9.01
4	7	8.05	15	17.24	2	2.38	9	10.71	3	3.66	4	4.88	2	2.63	2	33.33	4	5.88	5	7.35	0	0.00	1	.88	4	1.20	10	3.00	22	2.61	46	5.46
3	4	4.59	8	9.20	2	2.38	7	8.33	0	0.00	1	1.22	0	0.00	0	0.00	1	1.47	1	1.00	1	.88	1	.88	1	.30	6	1.80	9	1.07	24	2.85
2	1	1.15	4	4.60	2	2.38	5	5.95	0	0.00	1	1.22	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	5	1.50	3	.36	15	1.78
1	3	3.45	3	3.45	3	2.57	3	3.57	1	1.22	1	1.22	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	5	1.50	5	1.50	12	1.42	12	1.42
0																																

TABLE 4.4
Equipment Guidelines, Span 2, 7-12
Statistical Measures of Comparison by Size

	SIZE							
	1	2	3	4	5	6	7	TOTAL
MEAN	8.42	8.94	9.59	9.58	9.21	10.24	10.33	9.43
PERCENTILES								
90	12	12	12	13	13	14	13	13
75	10	11	11	11	10	12	12	11
50	9	9	10	9	9	10	10	9
25	7	7	8	8	8	9	9	8
10	5	5	6	6	6	7	7	6
RANGE OF MIDDLE 80%	10	9, 11	9	9	9	9, 11	9	9

TABLE 4.5
Numbers and Percentages of Secondary Schools Meeting 9 or Fewer or 10 or More Equipment Guidelines by Size Code

SIZE CODE	SCHOOLS MEETING 9 OR FEWER		SCHOOLS MEETING 10 OR MORE	
	NO.	%	NO.	%
1	72	61.54	45	38.46
2	48	57.14	36	42.86
3	43	49.43	44	50.57
4	30	50.85	29	49.15
5	21	61.76	13	38.24
6	22	37.93	36	62.07
7	44	39.64	67	60.36
TOTAL	280	50.91	270	49.09

TABLE 4.6
Number of Equipment Guidelines Met, Span 2, 7-12 by Numbers and Percentages of Schools and by Cumulative Frequencies and Percentages
(Total possible 20)

	SIZES																															
	1				2				3				4				5				6				7				TOTAL			
NO. OF STANDARDS	NO. OF SCHOOLS	% OF SCHOOLS	CUMULATIVE NO.	CUMULATIVE %	NO. OF SCHOOLS	% OF SCHOOLS	CUMULATIVE NO.	CUMULATIVE %	NO. OF SCHOOLS	% OF SCHOOLS	CUMULATIVE NO.	CUMULATIVE %	NO. OF SCHOOLS	% OF SCHOOLS	CUMULATIVE NO.	CUMULATIVE %	NO. OF SCHOOLS	% OF SCHOOLS	CUMULATIVE NO.	CUMULATIVE %	NO. OF SCHOOLS	% OF SCHOOLS	CUMULATIVE NO.	CUMULATIVE %	NO. OF SCHOOLS	% OF SCHOOLS	CUMULATIVE NO.	CUMULATIVE %	NO. OF SCHOOLS	% OF SCHOOLS	CUMULATIVE NO.	CUMULATIVE %
16	1	0.85	117	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	1	.90	111	100.00	2	.36	550	100.00
15	0	0	116	99.15	0	0.00	0	0.00	1	1.15	87	100.00	4	6.78	59	100.00	3	8.82	34	100.00	3	5.17	58	100.00	3	2.70	110	99.10	14	2.55	548	99.64
14	1	0.85	116	99.15	2	2.38	84	100.00	2	2.30	86	98.85	1	1.69	55	93.22	0	0	31	91.18	6	10.34	55	94.83	6	5.41	107	96.40	18	3.27	534	97.09
13	5	4.27	115	98.29	4	4.76	82	97.62	4	4.60	84	96.55	4	6.78	54	91.53	1	2.94	31	91.18	2	3.45	49	84.48	10	9.01	101	90.99	30	5.45	516	93.82
12	8	6.84	110	94.02	6	7.14	78	92.86	10	11.49	80	91.95	5	8.47	50	84.75	1	2.94	30	88.24	4	6.90	47	81.03	14	12.61	91	81.98	48	8.73	486	88.36
11	10	8.55	102	87.18	14	16.67	72	85.71	16	18.39	70	80.46	6	10.17	45	76.27	3	8.82	29	85.29	11	18.97	43	74.14	19	17.12	77	69.37	79	14.36	438	79.64
10	20	17.09	92	78.63	10	11.90	58	69.05	11	12.64	54	62.07	9	15.25	39	66.10	5	14.71	26	76.47	10	17.24	32	55.17	14	12.61	58	52.25	79	14.36	359	65.27
9	15	12.82	72	61.54	14	16.67	48	57.14	17	19.54	43	49.43	11	18.64	30	50.85	9	26.47	21	61.76	11	18.97	22	37.93	22	19.82	44	39.64	99	18.00	280	50.91
8	17	14.53	57	48.72	11	13.10	34	40.48	12	13.79	26	29.89	6	10.17	19	32.20	4	11.76	12	35.29	2	3.45	11	18.97	11	9.91	22	19.82	63	11.45	181	32.91
7	12	10.26	40	34.19	7	8.33	23	27.38	4	4.60	14	16.09	7	11.86	13	22.03	4	11.76	8	23.53	5	8.62	9	15.52	7	6.31	11	9.91	46	8.36	118	21.45
6	13	11.11	28	23.93	8	9.52	16	19.05	7	8.05	10	11.49	2	3.39	6	10.17	2	5.88	4	11.76	2	3.45	4	6.90	2	1.80	4	3.60	36	6.55	72	13.09
5	6	5.13	15	12.82	3	3.57	8	9.52	2	2.30	3	3.45	1	1.69	4	6.78	1	2.94	2	5.88	1	1.72	2	3.45	1	0.90	2	1.80	15	2.73	36	6.55
4	1	0.85	9	7.69	4	4.76	5	5.95	1	1.15	1	1.15	2	3.39	3	5.08	0	0.00	1	2.94	0	0.00	1	1.72	0	0.00	1	0.90	8	1.45	21	3.82
3	2	1.71	8	6.84	1	1.19	1	1.19	0	0.00	0	0.00	0	0.00	1	1.69	0	0.00	1	2.94	1	1.72	1	1.72	1	0.90	1	0.90	5	.91	13	2.36
2	5	4.27	6	5.13	0	0.00	0	0.00	0	0.00	0	0.00	1	1.69	1	1.69	1	2.94	1	2.94	0	0.00	0	0.00	0	0.00	0	0.00	7	1.27	8	1.45
1	1	0.85	1	0.85	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	1	0.18	1	0.18
0																																

TABLE 4.7
Seven Equipment Categories in Which More Than
75% of Schools Met the Guideline

CATEGORY	NO. MEETING	% MEETING
Filmstrip projectors	1,464	94.94
Record players	1,365	88.52
Reel-to-reel tape recorders	1,200	77.82
Cassette tape players/recorders[a]	597	92.70
Listening stations	1,167	75.68
Copy machines	1,292	83.79
Duplicating machines	1,391	90.21

[a] Spans 2, 4, and 5 only.

TABLE 4.8
Numbers and Percentages of All Schools
Not Meeting/Meeting Equipment Guidelines

	NOT MEETING		MEETING	
	NO.	%	NO.	%
16mm projectors	561	36.38	981	63.62
Slide projectors	862	55.90	680	44.10
Slide viewers	1088	70.56	454	29.44
Filmstrip projectors	78	5.06	1464	94.94
Filmstrip viewers	1149	74.51	393	25.49
Overhead projectors	728	47.21	814	52.79
Opaque projectors	1032	66.93	510	33.07
Television monitors	772	50.06	770	49.94
Microprojectors	1160	75.23	382	24.77
Record players	177	11.48	1365	88.52
Reel-to-reel tape recorders	342	22.18	1200	77.82
Cassette tape recorders/ players[a]	47	7.30	597	92.70
Projection carts	1515	98.25	27	1.75
Listening stations	375	24.32	1167	75.68
Mounted screens	1219	79.05	323	20.95
Copy machines	250	16.21	1292	83.79
Duplicating machines	151	9.79	1391	90.21
Wireless microphone[a]	469	72.83	175	27.17
Microform readers[a]	362	56.21	282	43.79
Microform reader/ printers[a]	580	90.06	64	9.94

[a] Spans 2, 4, and 5 only.

TABLE 4.9
Numbers and Percentages of All Schools by Size
Not Meeting/Meeting Equipment Guidelines[a]

	SIZE 1				SIZE 2				SIZE 3				SIZE 4			
	NOT MEETING		MEETING		NOT MEETING		MEETING		NOT MEETING		MEETING		NOT MEETING		MEETING	
	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%
16 mm projectors	131	51.98	121	48.02	83	41.71	116	58.29	66	34.74	124	65.26	63	39.62	96	60.38
Slide projectors	144	57.14	108	42.86	112	56.28	87	43.72	111	58.42	79	41.58	90	56.60	69	43.40
Slide viewers	173	68.65	79	31.35	142	71.36	57	28.64	134	70.53	56	29.47	108	67.92	51	32.08
Filmstrip projectors	29	11.51	223	88.49	17	8.54	182	91.46	4	2.11	186	97.89	6	3.77	153	96.23
Filmstrip viewers	221	87.70	31	12.30	175	87.94	24	12.06	155	81.58	35	18.42	130	81.76	29	18.24
Overhead projectors	157	62.30	95	37.70	118	59.30	81	40.70	90	47.37	100	52.63	74	46.54	85	53.46
Opaque projectors	212	84.13	40	15.87	153	76.88	46	23.12	128	67.37	62	32.63	103	64.78	56	35.22
Television monitors	186	73.81	66	26.19	114	57.29	85	42.71	96	50.53	94	49.47	81	50.94	78	49.06
Microprojectors	195	77.38	57	22.62	150	75.38	49	24.62	146	76.84	44	23.16	124	77.99	35	22.01
Record players	35	13.89	217	86.11	33	16.58	166	83.42	26	13.68	164	86.32	22	13.84	137	86.16
Reel to reel tape recorders	79	31.35	173	68.65	56	28.14	143	71.86	59	31.05	131	68.95	44	27.67	115	72.33
Cassette recorders and players[b]	15	10.20	132	89.80	12	11.65	91	88.35	4	4.00	96	96.00	3	4.11	70	95.89
Listening stations	106	42.06	146	57.94	60	30.15	139	69.85	48	25.26	142	74.74	42	26.42	117	73.58
Mounted screens	213	84.52	39	15.48	178	89.45	21	10.55	163	85.79	27	14.21	127	79.87	32	20.13
Copy machines	49	19.44	203	80.56	36	18.09	163	81.91	30	15.79	160	84.21	31	19.50	128	80.50
Duplicating machines	30	11.90	222	88.10	31	15.58	168	84.42	11	5.79	179	94.21	17	10.69	142	89.31
Wireless microphones[b]	90	61.22	57	38.78	75	72.82	28	27.18	69	69.00	31	31.00	59	80.82	14	19.18
Microform readers[b]	89	60.54	58	39.46	60	58.25	43	41.75	56	56.00	44	44.00	42	57.53	31	42.47
Microform reader/printers[b]	140	95.24	7	4.76	97	94.17	6	5.83	89	89.00	11	11.00	69	94.52	4	5.48

[a] Projection carts are omitted as a category in which less than 5% of the schools met the criterion.

[b] Spans 2, 4 and 5 only.

TABLE 4.9 con't.

	SIZE 5				SIZE 6				SIZE 7				TOTAL			
	NOT MEETING		MEETING		NOT MEETING		MEETING		NOT MEETING		MEETING		NOT MEETING		MEETING	
	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%
16mm projectors	43	39.81	65	60.19	61	34.66	115	65.34	114	24.89	344	75.11	561	36.38	981	63.62
Slide projectors	71	65.74	37	34.26	95	53.98	81	46.02	239	52.18	219	47.82	862	55.90	680	44.10
Slide viewers	82	75.93	26	24.07	126	71.59	50	28.41	323	70.52	135	29.48	1088	70.56	454	29.44
Filmstrip projectors	4	3.70	104	96.30	4	2.27	172	97.73	14	3.06	444	96.94	78	5.06	1464	94.94
Filmstrip viewers	78	72.22	30	27.78	120	68.18	56	31.82	270	58.95	188	41.05	1149	74.51	393	25.49
Overhead projectors	62	57.41	46	42.59	76	43.18	100	56.82	151	32.97	307	67.03	728	47.21	814	52.79
Opaque projectors	72	66.67	36	33.33	96	54.55	80	45.45	268	58.52	190	41.48	1032	66.93	510	33.07
Television monitors	52	48.15	56	51.85	72	40.91	104	59.09	171	37.34	287	62.66	772	50.06	770	49.94
Microprojectors	77	71.30	31	28.70	127	72.16	49	27.84	341	74.45	117	25.55	1160	75.23	382	24.77
Record players	15	13.89	93	86.11	13	7.39	163	92.61	33	7.21	425	92.79	177	11.48	1365	88.52
Reel to reel tape recorders	23	21.30	85	78.70	31	17.61	145	82.39	50	10.92	408	89.08	342	22.18	1200	77.82
Cassette recorders and players[b]	2	5.13	37	94.87	2	3.23	60	96.77	9	7.50	111	92.50	47	7.30	597	92.70
Listening stations	23	21.30	85	78.70	25	14.20	151	85.80	71	15.50	387	84.50	375	24.32	1167	75.68
Mounted screens	91	84.26	17	15.74	136	77.27	40	22.73	311	67.90	147	32.10	1219	79.05	323	20.95
Copy machines	20	18.52	88	81.48	40	22.73	136	77.27	44	9.61	414	90.39	250	16.21	1292	83.79
Duplicating machines	12	11.11	96	88.89	11	6.25	165	93.75	39	8.52	419	91.48	151	9.79	1391	90.21
Wireless microphones[b]	30	76.92	9	23.08	50	80.65	12	19.35	96	80.00	24	20.00	469	72.83	175	27.17
Microform readers[b]	25	64.10	14	35.90	30	48.39	32	51.61	60	50.00	60	50.00	362	56.21	282	43.79
Microform reader/printers[b]	34	87.18	5	12.82	48	77.42	14	22.58	103	85.83	17	14.17	580	90.06	64	9.94

[b] Spans 2, 4 and 5 only.

TABLE 4.10
Equipment Categories in Which K-6 Schools Differed from 7-12 Schools in Meeting Criteria by More Than 20 Percentage Points

CATEGORY	% MEETING K-6	7-12	DIFFERENCE	HIGHER GROUP
16mm projectors	53.74	79.09	25.35	7-12
Slide projectors	53.86	30.36	23.50	K-6
Filmstrip viewers	40.21	6.36	33.85	K-6
Overhead projectors	64.18	38.55	25.63	K-6
Opaque projectors	42.70	22.00	20.70	K-6
Reel-to-reel tape recorders	96.56	53.64	42.92	K-6
Listening stations	86.00	60.36	26.36	K-6
Mounted screens	31.67	7.45	24.22	K-6

TABLE 4.11
Numbers and Percentages of K-6 and 7-12 Schools Not Meeting/Meeting Equipment Guidelines

	ELEMENTARY				SECONDARY			
	NOT MEETING		MEETING		NOT MEETING		MEETING	
	NO.	%	NO.	%	NO.	%	NO.	%
16mm projectors	390	46.26	453	53.74	115	20.91	435	79.09
Slide projectors	389	46.14	454	53.86	383	69.64	167	30.36
Slide viewers	659	78.17	184	21.83	330	60.00	220	40.00
Filmstrip projectors	34	4.03	809	95.97	32	5.82	518	94.18
Filmstrip viewers	504	59.79	339	40.21	515	93.64	35	6.36
Overhead projectors	302	35.82	541	64.18	338	61.45	212	38.55
Opaque projectors	483	57.30	360	42.70	429	78.00	121	22.00
Television monitors	397	47.09	446	52.91	283	51.45	267	38.55
Microprojectors	656	77.82	187	22.18	396	72.00	154	28.00
Record players	156	18.51	687	81.49	3	0.55	547	99.45
Reel-to-reel tape recorders	29	3.44	814	96.56	255	46.36	295	53.64
Cassette tape recorder/ players[a]					39	7.09	511	92.91
Projection carts	827	98.10	16	1.90	542	98.55	8	1.45
Listening stations	118	14.00	725	86.00	218	39.64	332	60.36
Mounted screens	576	68.33	267	31.67	509	92.55	41	7.45
Copy machines	153	18.15	690	81.85	78	14.18	472	85.82
Duplicating machines	66	7.83	777	92.17	68	12.36	482	87.64
Wireless microphones[a]					410	74.55	140	25.45
Microform readers[a]					296	53.82	254	46.18
Microform reader/printers[a]					488	88.73	62	11.27

[a] Secondary schools only.

TABLE 4.12
Number and Percentage of K-8, Middle, and K-12 Schools
Not Meeting/Meeting Equipment Guidelines

	SPAN 3 - K-8				SPAN 4 - MIDDLE SCHOOL				SPAN 5 - K-12			
	NOT MEETING		MEETING		NOT MEETING		MEETING		NOT MEETING		MEETING	
	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%
16mm projectors	26	47.27	29	52.73	19	31.67	41	68.33	11	32.35	23	67.65
Slide projectors	24	43.64	31	56.36	39	65.00	21	35.00	27	79.41	7	20.59
Slide viewers	37	67.27	18	32.73	40	66.67	20	33.33	22	64.71	12	35.29
Filmstrip projectors	7	12.73	48	87.27	3	5.00	57	95.00	2	5.88	32	94.12
Filmstrip viewers	49	89.09	6	10.91	49	81.67	11	18.33	32	94.12	2	5.88
Overhead projectors	32	58.18	23	41.82	33	55.00	27	45.00	23	67.65	11	32.35
Opaque projectors	39	70.91	16	29.09	53	88.33	7	11.67	28	82.35	6	17.65
Television monitors	34	61.82	21	38.18	40	66.77	20	33.33	18	52.94	16	47.06
Microprojectors	44	80.00	11	20.00	44	73.33	16	26.67	20	58.82	14	41.18
Record players	18	32.73	37	67.27	0	0.00	60	100.00	0	0.00	34	100.00
Reel-to-reel tape recorders	4	7.27	51	92.73	33	55.00	27	45.00	21	61.76	13	38.24
Cassette tape recorder/players[a]					5	8.33	55	91.67	3	8.82	31	91.18
Projection carts	53	96.36	2	3.64	59	98.33	1	1.67	34	100.00	0	0.00
Listening stations	17	30.91	38	69.09	14	23.33	46	76.67	8	23.53	26	76.47
Mounted screens	47	85.45	8	14.55	54	90.00	6	10.00	33	97.06	1	2.94
Copy machines	11	20.00	44	80.00	5	8.33	55	91.67	3	8.82	31	91.18
Duplicating machines	7	12.73	48	87.27	6	10.00	54	90.00	4	11.76	30	88.24
Wireless microphones[a]					34	56.67	26	43.33	25	73.53	9	26.47
Microform readers[a]					50	83.33	10	16.67	16	47.06	18	52.94
Microform reader/printers[a]					59	98.33	1	1.67	33	97.06	1	2.94

[a] Spans 4 and 5 only.

TABLE 4.13
Comparison of All Schools by Span of Percentages of Total Not Meeting/Meeting Equipment Criteria with Percentage Each Span Is of Total Number of Schools in Study[a]

SPAN	NO. OF SCHOOLS	% OF TOTAL NUMBER OF SCHOOLS IN SPAN[b]	16MM PROJECTORS		SLIDE PROJECTORS		SLIDE VIEWERS		FILMSTRIP PROJECTORS		FILMSTRIP VIEWERS		OVERHEAD PROJECTORS		OPAQUE PROJECTORS		TELEVISION MONITORS		MICRO-PROJECTORS		RECORD PLAYERS	
			% OF TOTAL NOT MEETING NO. 561	% OF TOTAL MEETING NO. 981	% OF TOTAL NOT MEETING NO. 862	% OF TOTAL MEETING NO. 680	% OF TOTAL NOT MEETING NO. 1088	% OF TOTAL MEETING NO. 454	% OF TOTAL NOT MEETING NO. 78	% OF TOTAL MEETING NO. 1464	% OF TOTAL NOT MEETING NO. 1149	% OF TOTAL MEETING NO. 393	% OF TOTAL NOT MEETING NO. 728	% OF TOTAL MEETING NO. 814	% OF TOTAL NOT MEETING NO. 1032	% OF TOTAL MEETING NO. 510	% OF TOTAL NOT MEETING NO. 772	% OF TOTAL MEETING NO. 770	% OF TOTAL NOT MEETING NO. 1160	% OF TOTAL MEETING NO. 382	% OF TOTAL NOT MEETING NO. 177	% OF TOTAL MEETING NO. 1365
1	843	54.67	69.52	46.18	45.13	66.76	60.57	40.53	43.59	55.26	43.86	86.26	41.48	66.46	46.80	70.59	51.42	57.92	56.55	48.95	88.14	50.33
2	550	35.67	20.50	44.34	44.43	24.56	30.33	48.46	41.03	35.38	44.82	8.91	46.43	26.04	41.57	23.73	36.66	34.68	34.14	40.31	1.69	40.07
3	55	3.57	4.63	2.96	2.78	4.56	3.40	3.96	8.97	3.28	4.26	1.53	4.40	2.83	3.78	3.14	4.40	2.73	3.79	2.88	10.17	2.71
4	60	3.89	3.39	4.18	4.52	3.09	3.68	4.41	3.85	3.89	4.26	2.80	4.53	3.32	5.14	1.37	5.18	2.60	3.79	4.19	0.00	4.40
5	34	2.20	1.96	2.34	3.13	1.03	2.02	2.64	2.56	2.19	2.79	0.51	3.16	1.35	2.71	1.18	2.33	2.08	1.72	3.66	0.00	2.49
TOTAL	1,542	100.00	100.00	100.00	99.99	100.00	100.00	100.00	100.00	100.00	99.99	100.00	100.00	100.00	100.00	100.00	99.99	100.00	99.99	99.99	100.00	100.00

[a] Projection carts are omitted as a category in which less than 5% of schools met the criterion.

[b] Percentages in each column across may be compared with the percentage in this column to assess whether a span was contributing more or less of its proportionate share of those schools not meeting or meeting a criterion.

[c] Includes spans 2, 4, and 5 only.

TABLE 4.13 con't.

SPAN	NO. OF SCHOOLS	% OF TOTAL NUMBER OF SCHOOLS IN SPAN[b]	REEL-TO-REEL TAPE PLAYERS		CASSETTE RECORDERS/ PLAYERS[c]		LISTENING STATIONS		MOUNTED SCREENS		COPY MACHINES		DUPLICATING MACHINES		WIRELESS MICROPHONES[c]		MICROFORM READERS[c]		MICROFORM READER/PRINTERS[c]	
			% OF TOTAL NOT MEETING NO. 342	% OF TOTAL MEETING NO. 1200	% OF TOTAL NOT MEETING NO. 47	% OF TOTAL MEETING NO. 597	% OF TOTAL NOT MEETING NO. 375	% OF TOTAL MEETING NO. 1167	% OF TOTAL NOT MEETING NO. 1219	% OF TOTAL MEETING NO. 323	% OF TOTAL NOT MEETING NO. 250	% OF TOTAL MEETING NO. 1292	% OF TOTAL NOT MEETING NO. 151	% OF TOTAL MEETING NO. 1391	% OF TOTAL NOT MEETING NO. 469	% OF TOTAL MEETING NO. 175	% OF TOTAL NOT MEETING NO. 362	% OF TOTAL MEETING NO. 282	% OF TOTAL NOT MEETING NO. 580	% OF TOTAL MEETING NO. 64
1	843	54.67	8.48	67.83			31.47	62.13	47.25	82.66	61.20	53.41	43.71	55.86						
2	550	35.67	74.56	24.58	82.98	85.59	58.13	28.45	41.76	12.69	31.20	36.53	45.03	34.65	87.42	80.00	81.77	90.07	84.14	96.88
3	55	3.57	1.17	4.25			4.53	3.26	3.86	2.48	4.40	3.41	4.64	3.45						
4	60	3.89	9.65	2.25	10.64	9.21	3.73	3.94	4.43	1.86	2.00	4.26	3.97	3.88	7.25	14.86	13.81	3.55	10.17	1.56
5	34	2.20	6.14	1.08	6.38	5.19	2.13	2.23	2.71	0.31	1.20	2.40	2.65	2.16	5.33	5.14	4.42	6.38	5.69	1.56
TOTAL	1,542	100.00	100.00	99.99	100.00	99.99	99.99	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00

[c] Includes spans 2, 4, and 5 only.

TABLE 4.14
Comparison of All Schools by Size of Percentages of Total Not Meeting/Meeting Equipment Criteria with Percentage Each Size Is of Total Number of Schools in Study[a]

SIZE	NO. OF SCHOOLS	% OF TOTAL NUMBER OF SCHOOLS IN SIZE[b]	16MM PROJECTORS		SLIDE PROJECTORS		SLIDE VIEWERS		FILMSTRIP PROJECTORS		FILMSTRIPS VIEWERS		OVERHEAD PROJECTORS		OPAQUE PROJECTORS		TELEVISION MONITORS		MICRO-PROJECTORS		RECORD PLAYERS	
			% OF TOTAL NOT MEETING NO. 561	% OF TOTAL MEETING NO. 981	% OF TOTAL NOT MEETING NO. 862	% OF TOTAL MEETING NO. 680	% OF TOTAL NOT MEETING NO. 1088	% OF TOTAL MEETING NO. 454	% OF TOTAL NOT MEETING NO. 78	% OF TOTAL MEETING NO. 1464	% OF TOTAL NOT MEETING NO. 1149	% OF TOTAL MEETING NO. 393	% OF TOTAL NOT MEETING NO. 728	% OF TOTAL MEETING NO. 814	% OF TOTAL NOT MEETING NO. 1032	% OF TOTAL MEETING NO. 510	% OF TOTAL NOT MEETING NO. 772	% OF TOTAL MEETING NO. 770	% OF TOTAL NOT MEETING NO. 1160	% OF TOTAL MEETING NO. 382	% OF TOTAL NOT MEETING NO. 177	% OF TOTAL MEETING NO. 1365
1	252	16.34	23.35	12.33	16.71	15.88	15.90	17.40	37.18	15.23	19.23	7.89	21.57	11.67	20.54	7.84	24.09	8.57	16.81	14.92	19.77	15.90
2	199	12.91	14.80	11.82	12.99	12.79	13.05	12.56	21.79	12.43	15.23	6.11	16.21	9.95	14.83	9.02	14.77	11.04	12.93	12.83	18.64	12.16
3	190	12.32	11.76	12.64	12.88	11.62	12.32	12.33	5.13	12.70	13.49	8.91	12.36	12.29	12.40	12.16	12.44	12.21	12.59	11.52	14.69	12.01
4	159	10.31	11.23	9.79	10.44	10.15	9.93	11.23	7.69	10.45	11.31	7.38	10.16	10.44	9.98	10.98	10.49	10.13	10.69	9.16	12.43	10.04
5	108	7.00	7.66	6.63	8.24	5.44	7.54	5.73	5.13	7.10	6.79	7.63	8.52	5.65	6.98	7.06	6.74	7.27	6.64	8.12	8.47	6.81
6	176	11.41	10.87	11.72	11.02	11.91	11.58	11.01	5.13	11.75	10.44	14.25	10.44	12.29	9.30	15.69	9.33	13.51	10.95	12.83	7.34	11.94
7	458	29.70	20.32	35.07	27.73	32.21	29.69	29.74	17.95	30.33	23.50	47.84	20.74	37.71	25.97	37.25	22.15	37.27	29.40	30.63	18.64	31.14
TOTAL	1,542	99.99	99.99	100.00	100.00	100.00	100.00	100.00	100.00	99.99	99.99	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	99.98	100.00

---

[a] Projection carts are excluded as a category in which less than 5% of schools met the criterion.

[b] Percentages in each column across may be compared with the percentage in this column to assess whether a size was contributing more or less than its proportionate share of those schools not meeting or meeting a criterion.

[c] Includes Spans 2, 4, and 5 only.

TABLE 4.14 con't.

SIZE	NO. OF SCHOOLS	% OF TOTAL NUMBER OF SCHOOLS IN SIZE[b]	REEL-TO-REEL TAPE PLAYERS		CASSETTE RECORDERS/ PLAYERS[c]		LISTENING STATIONS		MOUNTED SCREENS		COPY MACHINES		DUPLICATING MACHINES		WIRELESS MICROPHONES[c]		MICROFORM READERS[c]		MICROFORM READER/ PRINTERS[c]	
			% OF TOTAL NOT MEETING NO. 342	% OF TOTAL MEETING NO. 1200	% OF TOTAL NOT MEETING NO. 47	% OF TOTAL MEETING NO. 597	% OF TOTAL NOT MEETING NO. 375	% OF TOTAL MEETING NO. 1167	% OF TOTAL NOT MEETING NO. 1219	% OF TOTAL MEETING NO. 323	% OF TOTAL NOT MEETING NO. 250	% OF TOTAL MEETING NO. 1292	% OF TOTAL NOT MEETING NO. 151	% OF TOTAL MEETING NO. 1391	% OF TOTAL NOT MEETING NO. 469	% OF TOTAL MEETING NO. 175	% OF TOTAL NOT MEETING NO. 362	% OF TOTAL MEETING NO. 282	% OF TOTAL NOT MEETING NO. 580	% OF TOTAL MEETING NO. 64
1	252	16.34	23.10	14.42	31.91	22.11	28.27	12.51	17.47	12.07	19.60	15.71	19.87	15.96	19.19	32.57	24.59	20.57	24.14	10.94
2	199	12.91	16.37	11.92	25.53	15.24	16.00	11.91	14.60	6.50	14.40	12.62	20.53	12.08	15.99	16.00	16.57	15.25	16.72	9.38
3	190	12.32	17.25	10.92	8.51	16.08	12.80	12.17	13.37	8.36	12.00	12.38	7.28	12.87	14.71	17.71	15.47	15.60	15.34	17.19
4	159	10.31	12.87	9.58	6.38	11.73	11.20	10.03	10.42	9.91	12.40	9.91	11.26	10.21	12.58	8.00	11.60	10.99	11.90	6.25
5	108	7.00	6.73	7.08	4.26	6.20	6.13	7.28	7.47	5.26	8.00	6.81	7.95	6.90	6.40	5.14	6.91	4.96	5.86	7.81
6	176	11.41	9.06	12.08	4.26	10.05	6.67	12.94	11.16	12.38	16.00	10.53	7.28	11.86	10.66	6.86	8.29	11.35	8.28	21.88
7	458	29.70	14.62	34.00	19.15	18.59	18.93	33.16	25.51	45.51	17.60	32.04	25.83	30.12	20.47	13.71	16.57	21.28	17.76	26.56
TOTAL	1,542	99.99	100.00	100.00	100.00	100.00	100.00	100.00	100.00	99.99	100.00	100.00	100.00	100.00	100.00	99.99	100.00	100.00	100.00	100.00

TABLE 4.15
Differences in Percentage Points Between Lowest and Highest Sizes For Meeting Equipment Guidelines for K-6 Schools

	LOW		HIGH		
CATEGORY	SIZE	% MEETING	SIZE	% MEETING	DIFFERENCE
16mm projectors	1	31.03	7	68.77	37.74
slide projectors	5	36.76	7	57.66	20.90
slide viewers	5	14.71	3	25.61	10.90
filmstrip projectors	1	88.51	6	99.12	10.61
filmstrip viewers	2	21.43	7	53.75	32.32
overhead projectors	2	47.62	7	72.07	24.45
opaque projectors	1	28.74	6	51.33	22.59
television monitors	1	26.44	7	61.26	34.82
microprojectors	3	13.41	5	30.88	17.47
record players	2	64.29	7	90.09	25.80
tape recorders	1	91.95	4	98.68	6.73
listening stations	1	63.22	6	93.81	30.59
mounted screens	2	16.67	7	39.94	23.27
copy machines	6	69.91	7	90.39	20.48
duplicating machines	2	75.00	3	96.05	21.05

TABLE 4.16
Numbers and Percentages of K-6 Schools by Size
Not Meeting/Meeting Equipment Guidelines[a]

	SIZE 1				SIZE 2				SIZE 3				SIZE 4			
	NOT MEETING		MEETING		NOT MEETING		MEETING		NOT MEETING		MEETING		NOT MEETING		MEETING	
	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%
16mm projectors	60	68.97	27	31.03	49	58.33	35	41.67	43	52.44	39	47.56	41	43.95	35	46.05
Slide projectors	39	44.83	48	55.17	37	44.05	47	55.95	38	49.34	44	53.66	38	50.00	38	50.00
Slide viewers	65	74.71	22	25.29	66	78.57	18	21.43	61	74.39	21	25.61	57	75.00	19	25.00
Filmstrip projectors	10	11.49	77	88.51	6	7.14	78	92.86	1	1.22	81	98.78	3	3.95	73	96.05
Filmstrip viewers	66	75.86	21	24.14	66	78.57	18	21.43	57	69.51	25	30.49	51	67.11	25	32.89
Overhead projectors	40	45.98	47	54.02	44	52.38	40	47.62	29	35.37	53	64.63	27	35.53	49	64.47
Opaque projectors	62	71.26	25	28.74	53	63.10	31	36.90	45	54.88	37	45.12	43	56.58	33	43.42
Television monitors	64	73.56	23	26.44	46	54.76	38	45.24	38	46.34	44	53.66	37	48.68	39	51.32
Microprojectors	71	81.61	16	18.39	71	84.52	13	15.48	71	86.59	11	13.41	64	84.21	12	15.79
Record players	24	27.59	63	72.41	30	35.71	54	64.29	24	29.27	58	70.73	17	22.37	59	77.63
Tape recorders	7	8.05	80	91.95	6	7.14	78	92.86	2	2.44	80	97.56	1	1.32	75	98.68
Listening stations	32	36.78	55	63.22	21	25.00	63	75.00	14	17.07	68	82.93	11	14.47	65	85.53
Mounted screens	63	72.41	24	27.59	70	83.33	14	16.67	64	78.05	18	21.95	50	65.79	26	34.21
Copy machines	24	27.59	63	72.41	22	26.19	62	73.81	17	20.73	65	79.27	11	14.77	65	85.53
Duplicating machines	10	11.49	77	88.51	21	25.00	63	75.00	5	6.10	77	93.90	3	3.95	73	96.05

TABLE 4.16 con't.

CATEGORY	SIZE 5				SIZE 6				SIZE 7				TOTAL			
	NOT MEETING		MEETING		NOT MEETING		MEETING		NOT MEETING		MEETING		NOT MEETING		MEETING	
	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%
16mm projectors	39	57.35	29	42.65	54	47.79	59	52.21	104	31.23	229	68.77	390	46.26	453	53.74
Slide projectors	43	63.24	25	36.76	53	46.90	60	53.10	141	42.34	192	57.66	389	46.14	454	53.86
Slide viewers	58	85.29	10	14.71	89	78.76	24	21.24	263	78.98	70	21.02	659	78.17	184	21.83
Filmstrip projectors	2	2.94	66	97.06	1	0.88	112	99.12	11	3.30	322	96.70	34	4.03	809	95.97
Filmstrip viewers	43	63.24	25	36.76	67	59.29	46	40.71	154	46.25	179	53.75	504	59.79	339	40.21
Overhead projectors	31	45.59	37	54.41	38	33.63	75	66.37	93	27.93	240	72.07	302	35.82	541	64.18
Opaque projectors	36	52.94	32	47.06	55	48.67	58	51.33	189	56.76	144	43.24	483	57.30	360	42.70
Television monitors	31	45.59	37	54.41	52	46.02	61	53.98	129	38.74	204	61.26	397	47.09	446	52.91
Microprojectors	47	69.12	21	30.88	79	69.91	34	30.09	253	75.98	80	24.02	656	77.82	187	22.18
Record players	15	22.06	53	77.94	13	11.50	100	88.50	33	9.91	300	90.09	156	18.51	687	81.49
Tape recorders	2	2.94	66	97.06	3	2.65	110	97.35	8	2.40	325	97.60	29	3.44	814	96.56
Listening stations	7	10.29	61	89.71	7	6.19	106	93.81	26	7.81	307	92.19	118	14.00	725	86.00
Mounted screens	53	77.94	15	22.06	76	67.26	37	32.74	200	60.06	133	39.94	576	68.33	267	31.67
Copy machines	13	19.12	55	80.88	34	30.09	79	69.91	32	9.61	301	90.39	153	18.15	690	81.85
Duplicating machines	4	5.88	64	94.12	5	4.42	108	95.88	18	5.41	315	94.59	66	7.83	777	92.17

[a] Projection carts are omitted as a category in which fewer than 5% of the schools met the guideline.

TABLE 4.17

Comparison of K-6 Schools by Size of Percentages of Total Not Meeting/Meeting Equipment Criteria with Percentage Each Size Is of Total Number of Schools in Study[a]

SIZE	NO. OF SCHOOLS	% OF TOTAL NUMBER OF SCHOOLS IN SIZE[b]	16MM PROJECTORS		SLIDE PROJECTORS		SLIDE VIEWERS		FILMSTRIP PROJECTORS		FILMSTRIP VIEWERS		OVERHEAD PROJECTORS		OPAQUE PROJECTORS	
			% OF TOTAL NOT MEETING NO. 390	% OF TOTAL MEETING NO. 453	% OF TOTAL NOT MEETING NO. 389	% OF TOTAL MEETING NO. 454	% OF TOTAL NOT MEETING NO. 659	% OF TOTAL MEETING NO. 184	% OF TOTAL NOT MEETING NO. 34	% OF TOTAL MEETING NO. 809	% OF TOTAL NOT MEETING NO. 504	% OF TOTAL MEETING NO. 339	% OF TOTAL NOT MEETING NO. 302	% OF TOTAL MEETING NO. 591	% OF TOTAL NOT MEETING NO. 483	% OF TOTAL MEETING NO. 360
1	87	10.32	15.38	5.96	10.03	10.57	9.86	11.96	29.41	9.52	13.10	6.19	13.25	8.69	12.84	6.94
2	84	9.96	12.56	7.73	9.51	10.35	10.02	9.78	17.65	9.64	13.10	5.31	14.57	7.39	10.97	8.61
3	82	9.73	11.03	8.61	9.77	9.69	9.26	11.41	2.94	10.01	11.31	7.37	9.60	9.80	9.32	10.28
4	76	9.02	10.51	7.73	9.77	8.37	8.65	10.33	8.82	9.02	10.12	7.37	8.94	9.06	8.90	9.17
5	68	8.07	10.00	6.40	11.05	5.51	8.80	5.43	5.88	8.16	8.53	7.37	10.26	6.84	7.45	8.89
6	113	13.40	13.85	13.02	13.62	13.22	13.51	13.04	2.94	13.84	13.29	13.57	12.58	13.86	11.39	16.11
7	333	34.50	26.67	50.55	36.25	42.29	39.91	38.04	32.35	39.80	30.56	52.80	30.79	44.36	39.13	40.00
TOTAL	843	100.00	100.00	100.00	100.00	100.00	100.00	99.99	99.99	99.99	100.00	99.98	99.99	100.00	100.00	100.00

[a] Projection carts are omitted as a category in which less than 5% of schools met the criterion.

[b] Percentages in each column across may be compared with the percentage in this column to assess whether a size was contributing more or less than its proportionate share of those schools not meeting or meeting a criterion.

TABLE 4.17 con't.

SIZE	NO. OF SCHOOLS	% OF TOTAL NUMBER OF SCHOOLS IN SIZE[b]	TELEVISION MONITORS		MICRO-PROJECTORS		RECORD PLAYERS		REEL TO REEL TAPE RECORDERS		LISTENING STATIONS		MOUNTED SCREENS		COPY MACHINES		DUPLICATING MACHINES	
			% OF TOTAL NOT MEETING NO. 397	% OF TOTAL MEETING NO. 446	% OF TOTAL NOT MEETING NO. 656	% OF TOTAL MEETING NO. 187	% OF TOTAL NOT MEETING NO. 156	% OF TOTAL MEETING NO. 687	% OF TOTAL NOT MEETING NO. 29	% OF TOTAL MEETING NO. 814	% OF TOTAL NOT MEETING NO. 118	% OF TOTAL MEETING NO. 725	% OF TOTAL NOT MEETING NO. 576	% OF TOTAL MEETING NO. 267	% OF TOTAL NOT MEETING NO. 153	% OF TOTAL MEETING NO. 690	% OF TOTAL NOT MEETING NO. 66	% OF TOTAL MEETING NO. 777
1	87	10.32	16.12	5.16	10.82	8.56	15.38	9.17	24.14	9.83	27.12	7.59	10.94	8.99	15.69	9.13	15.15	9.91
2	84	9.96	11.59	8.52	10.82	6.95	19.23	7.86	20.69	9.58	17.80	8.69	12.15	5.24	14.38	8.99	31.82	8.11
3	82	9.73	9.57	9.87	10.82	5.88	15.38	8.44	6.90	9.83	11.86	9.38	11.11	6.74	11.11	9.42	7.58	9.91
4	76	9.02	9.32	8.74	9.76	6.42	10.90	8.59	3.45	9.21	9.32	8.97	8.68	9.74	7.19	9.42	4.55	9.40
5	68	8.07	7.81	8.30	7.16	11.23	9.62	7.71	6.90	8.11	5.93	8.41	9.20	5.62	8.50	7.97	6.06	8.24
6	113	13.40	13.10	13.68	12.04	18.18	8.33	14.56	10.34	13.51	5.93	14.62	13.19	13.86	22.22	11.45	7.58	13.90
7	333	34.50	32.49	45.74	38.57	42.78	21.15	43.67	27.59	39.93	22.03	42.34	34.72	49.81	20.92	43.62	27.27	40.54
TOTAL	843	100.00	100.00	100.00	99.99	100.00	99.99	100.00	100.00	100.00	99.99	100.00	99.99	100.00	100.00	100.00	100.00	100.00

TABLE 4.18
Differences in Percentage Points
Between Lowest and Highest Sizes
For Meeting Equipment Guidelines
For 7-12 Schools

	LOW		HIGH		
CATEGORY	SIZE	% MEETING	SIZE	% MEETING	DIFFERENCE
16mm projectors	1	58.12	7	92.79	34.67
slide projectors	7	18.02	4	37.29	19.27
slide viewers	1	34.19	7	53.15	18.96
filmstrip projectors	1	88.89	4	98.31	9.42
filmstrip viewers	2	3.57	6	13.79	10.22
overhead projectors	5	20.59	7	54.95	34.36
opaque projectors	1	5.13	7	37.84	32.71
television monitors	1	21.37	6	68.97	47.60
microprojectors	5	23.53	3	31.03	7.50
tape recorders	3	44.83	7	65.77	20.94
cassette recorder/ players	2	86.90	3&6	96.55	9.65
listening stations	1	48.72	6	68.97	20.25
mounted screens	5	2.94	7	10.81	7.87
copy machines	4	79.66	6	89.66	10.00
duplicating machines	5	79.41	3	93.10	13.69
wireless microphones	4	18.64	1	39.32	20.68
microform readers	1	36.75	6	53.45	16.70
microform reader/ printers	1	5.13	6	22.41	17.28

TABLE 4.19

Numbers and Percentages of 7-12 Schools by Size Not Meeting/Meeting Equipment Guidelines[a]

EQUIPMENT CATEGORY	SIZE 1 (NO. 117)				SIZE 2 (NO. 84)				SIZE 3 (NO. 87)				SIZE 4 (NO. 59)			
	NOT MEETING		MEETING		NOT MEETING		MEETING		NOT MEETING		MEETING		NOT MEETING		MEETING	
	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%
16mm projectors	49	41.88	68	58.12	21	25.00	63	75.00	17	19.54	70	80.46	9	15.25	50	84.75
Slide projectors	75	64.10	42	35.90	58	69.05	26	30.95	59	67.82	28	32.18	37	62.71	22	37.29
Slide viewers	77	65.81	40	34.19	55	65.48	29	34.52	57	65.52	30	34.48	37	62.71	22	37.29
Filmstrip projectors	13	11.11	104	88.89	8	9.52	76	90.48	3	3.45	84	96.55	1	1.69	58	98.31
Filmstrip viewers	111	94.87	6	5.13	81	96.43	3	3.57	83	95.40	4	4.60	56	94.92	3	5.08
Overhead projectors	84	71.79	33	28.21	56	66.67	28	33.33	52	59.77	35	40.23	33	55.93	26	44.07
Opaque projectors	111	94.87	6	5.13	74	88.10	10	11.90	67	77.01	20	22.99	40	67.80	19	32.20
Television monitors	92	78.63	25	21.37	49	58.33	35	41.67	46	52.87	41	47.13	27	45.76	32	54.24
Microprojectors	88	75.21	29	24.79	58	69.05	26	30.95	60	68.97	27	31.03	42	71.19	17	28.81
Record players	3	2.56	114	97.44	0	0.00	84	100.00	0	0.00	87	100.00	0	0.00	59	100.00
Reel to reel tape recorders	54	46.15	63	53.85	39	46.43	45	53.57	48	55.17	39	44.83	32	54.24	27	45.76
Cassette tape recorders	11	9.40	106	90.60	11	13.10	73	86.90	3	3.45	84	96.55	3	5.08	56	94.92
Listening stations	60	51.20	57	48.72	30	35.71	54	64.29	30	34.48	57	65.52	23	38.98	36	61.02
Mounted screens	105	89.74	12	10.26	81	96.43	3	3.57	81	93.10	6	6.90	55	93.22	4	6.78
Copy machines	19	16.24	98	83.76	11	13.10	73	86.90	12	13.79	75	86.21	12	20.34	47	79.66
Duplicating machines	13	11.11	104	88.89	8	9.52	76	90.48	6	6.90	81	93.10	8	13.56	51	86.44
Wireless microphones	71	60.68	46	39.32	64	76.19	20	23.81	64	73.56	23	26.44	48	81.36	11	18.64
Microform readers	74	63.25	43	36.75	47	55.95	37	44.05	44	50.57	43	49.43	31	52.54	28	47.46
Microform reader/ printers	111	94.87	6	5.13	78	92.86	6	7.14	76	87.36	11	12.64	55	93.22	4	6.78

[a] Projection carts are omitted as a category in which less than 5% of schools met the criterion.

TABLE 4.19 con't.

	SIZE 5 (NO. 34)				SIZE 6 (NO. 55)				SIZE 7 (NO. 111)				TOTAL (NO. 550)			
	NOT MEETING		MEETING		NOT MEETING		MEETING		NOT MEETING		MEETING		NOT MEETING		MEETING	
	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%
16mm projectors	4	11.76	30	88.24	7	12.07	51	87.93	8	7.21	103	92.79	115	20.91	435	79.09
Slide projectors	24	70.59	10	39.41	39	67.24	19	32.76	91	81.98	20	18.02	383	69.64	167	30.36
Slide viewers	18	52.94	16	47.06	34	58.62	24	41.38	52	46.85	59	53.15	330	60.00	220	40.00
Filmstrip projectors	1	2.94	33	97.06	3	5.17	55	94.83	3	2.70	108	97.30	32	5.82	518	94.18
Filmstrip viewers	30	88.24	4	11.76	50	86.21	8	13.79	104	93.69	7	6.31	515	93.64	35	6.36
Overhead projectors	27	79.41	7	20.59	36	62.09	22	37.93	50	45.05	61	54.95	338	61.45	212	38.55
Opaque projectors	30	88.24	4	11.76	38	65.52	20	34.48	69	62.16	42	37.84	429	78.00	121	22.00
Televison monitors	16	47.06	18	52.94	18	31.03	40	68.97	35	31.53	76	68.47	283	51.45	267	48.55
Microprojectors	26	76.47	8	23.53	44	75.86	14	24.14	78	70.27	33	29.73	396	72.00	154	28.00
Record players	0	0.00	34	100.00	0	0.00	58	100.00	0	0.00	111	100.00	3	0.55	547	99.45
Reel to reel tape recorders	18	52.94	16	47.06	26	44.83	32	55.17	38	34.23	73	65.77	255	46.36	295	53.64
Cassette tape recorders	2	5.88	32	94.12	2	3.45	56	96.55	7	6.31	104	93.69	39	7.09	511	92.91
Listening stations	14	41.18	20	58.82	18	31.03	40	68.97	43	38.74	68	61.26	218	39.64	332	60.36
Mounted screens	33	97.06	1	2.94	55	94.83	3	5.17	99	89.19	12	10.81	509	92.55	41	7.45
Copy machines	6	17.65	28	82.35	6	10.34	52	89.66	12	10.81	99	89.19	78	14.18	472	85.82
Duplicating machines	7	20.59	27	79.41	6	10.34	52	89.66	20	18.02	91	81.98	68	12.36	482	87.64
Wireless microphones	27	79.41	7	20.59	46	79.31	12	20.69	90	81.08	21	18.92	410	74.55	140	25.45
Microform readers	20	58.82	14	41.18	27	46.55	31	53.45	53	47.75	58	52.25	296	53.82	254	46.18
Microform reader/ printers	29	85.29	5	14.71	45	77.59	13	22.41	94	84.68	17	15.32	488	88.73	62	11.27

TABLE 4.20

Comparison of 7-12 Schools by Size, of Percentages of Total Not Meeting/Meeting Equipment Criteria with Percentage Each Size Is of Total Number of Schools in Study

SIZE	NUMBER OF SCHOOLS	% OF TOTAL NUMBER OF SCHOOLS IN SIZE[b]	16MM PROJECTORS % OF TOTAL NOT MEETING No. 115	16MM PROJECTORS % OF TOTAL MEETING No. 435	SLIDE PROJECTORS % OF TOTAL NOT MEETING No. 383	SLIDE PROJECTORS % OF TOTAL MEETING No. 167	SLIDE VIEWERS % OF TOTAL NOT MEETING No. 330	SLIDE VIEWERS % OF TOTAL MEETING No. 220	FILMSTRIP PROJECTORS % OF TOTAL NOT MEETING No. 32	FILMSTRIP PROJECTORS % OF TOTAL MEETING No. 518	FILMSTRIP VIEWERS % OF TOTAL NOT MEETING No. 515	FILMSTRIP VIEWERS % OF TOTAL MEETING No. 35	OVERHEAD PROJECTORS % OF TOTAL NOT MEETING No. 338	OVERHEAD PROJECTORS % OF TOTAL MEETING No. 212	OPAQUE PROJECTORS % OF TOTAL NOT MEETING No. 429	OPAQUE PROJECTORS % OF TOTAL MEETING No. 121	TELEVISION MONITORS % OF TOTAL NOT MEETING No. 283	TELEVISION MONITORS % OF TOTAL MEETING No. 267	MICRO-PROJECTORS % OF TOTAL NOT MEETING No. 396	MICRO-PROJECTORS % OF TOTAL MEETING No. 154	RECORD PLAYERS % OF TOTAL NOT MEETING No. 3	RECORD PLAYERS % OF TOTAL MEETING No. 547
1	117	21.27	42.61	15.63	19.58	25.15	23.33	18.18	40.63	20.08	21.55	17.14	24.85	15.57	25.87	4.96	32.51	9.36	22.22	18.83	100.00	20.84
2	84	15.27	18.26	14.48	15.14	15.57	16.67	13.18	25.00	14.67	15.73	8.57	16.57	13.21	17.25	8.26	17.31	13.11	14.65	16.88	0.00	15.36
3	87	15.82	14.78	16.09	15.40	16.77	17.27	13.64	9.38	16.22	16.12	11.43	15.38	16.51	15.62	16.53	16.25	15.36	15.15	17.53	0.00	15.90
4	59	10.73	7.83	11.49	9.66	13.17	11.21	10.00	3.13	11.20	10.87	8.57	9.76	12.26	9.32	15.70	9.54	11.99	10.61	11.04	0.00	10.79
5	34	6.18	3.48	6.90	6.27	5.99	5.45	7.27	3.13	6.37	5.83	11.43	7.99	3.30	6.99	3.31	5.65	6.74	6.57	5.19	0.00	6.22
6	58	10.55	6.09	11.72	10.18	11.38	10.30	10.91	9.38	10.62	9.71	22.86	10.65	10.38	8.86	16.53	6.36	14.98	11.11	9.09	0.00	10.60
7	111	20.18	6.96	23.68	23.76	11.98	15.76	26.82	9.38	20.85	20.19	20.00	14.79	28.77	16.08	34.71	12.37	28.46	19.70	21.43	0.00	20.29
TOTAL	550	100.00	100.00	99.99	99.99	100.00	99.99	100.00	100.00	100.00	100.00	100.00	99.99	100.00	99.99	100.00	99.99	100.00	100.00	99.99	100.00	100.00

SIZE	NUMBER OF SCHOOLS	% OF TOTAL NUMBER OF SCHOOLS IN SIZE[b]	REEL-TO-REEL TAPE RECORDERS % OF TOTAL NOT MEETING No. 255	REEL-TO-REEL TAPE RECORDERS % OF TOTAL MEETING No. 295	CASSETTE TAPE RECORDERS/ PLAYERS % OF TOTAL NOT MEETING No. 39	CASSETTE TAPE RECORDERS/ PLAYERS % OF TOTAL MEETING No. 511	LISTENING STATIONS % OF TOTAL NOT MEETING No. 218	LISTENING STATIONS % OF TOTAL MEETING No. 332	MOUNTED SCREENS % OF TOTAL NOT MEETING No. 509	MOUNTED SCREENS % OF TOTAL MEETING No. 41	COPY MACHINES % OF TOTAL NOT MEETING No. 78	COPY MACHINES % OF TOTAL MEETING No. 472	DUPLICATING MACHINES % OF TOTAL NOT MEETING No. 68	DUPLICATING MACHINES % OF TOTAL MEETING No. 482	WIRELESS MICROPHONES % OF TOTAL NOT MEETING No. 410	WIRELESS MICROPHONES % OF TOTAL MEETING No. 140	MICROFORM READERS % OF TOTAL NOT MEETING No. 296	MICROFORM READERS % OF TOTAL MEETING No. 254	MICROFORM READER/ PRINTERS % OF TOTAL NOT MEETING No. 488	MICROFORM READER/ PRINTERS % OF TOTAL MEETING No. 62
1	117	21.27	21.18	21.36	28.21	20.74	27.52	17.17	20.63	29.27	24.36	20.76	19.12	21.58	17.32	32.86	25.00	16.93	22.75	9.68
2	84	15.27	15.29	15.25	28.21	14.29	13.76	16.27	15.91	7.32	14.10	15.47	11.76	15.77	15.61	14.29	15.88	14.57	14.98	9.68
3	87	15.82	18.82	13.22	7.69	16.44	13.76	17.17	15.91	14.63	14.38	15.89	8.82	16.80	15.61	16.43	14.86	16.93	15.57	17.74
4	59	10.73	12.55	9.15	7.69	10.96	10.55	10.84	10.81	9.76	15.38	9.96	11.76	10.58	11.71	7.86	10.47	11.02	11.27	6.45
5	34	6.18	7.06	5.42	5.13	6.26	6.42	6.02	6.48	2.44	7.69	5.93	10.29	5.60	6.59	5.00	6.76	5.51	5.94	8.06
6	58	10.55	10.20	10.85	5.13	10.96	8.26	12.05	10.81	7.32	7.69	11.02	8.82	10.79	11.22	8.57	9.12	12.20	9.22	20.97
7	111	20.18	14.90	24.75	17.95	20.35	19.72	20.48	19.45	29.27	15.38	20.97	29.41	18.88	21.95	15.00	17.91	22.83	19.26	27.42
TOTAL	550	100.00	100.00	100.00	100.00	100.00	99.99	100.00	100.00	100.00	99.98	100.00	99.98	100.00	100.00	100.00	100.00	99.99	99.99	100.00

[a] Projection carts are omitted as a category in which less than 5 percent of schools met the criterion.

[b] Percentages in each column across may be compared with the percentage in this column to assess whether a size was contributing more or less of its proportionate share of those schools not meeting or meeting a criterion.

TABLE 4.21
Total Numbers and Averages of Equipment by Span

		16MM PROJECTOR		SLIDE PROJECTOR		SLIDE VIEWER		FILMSTRIP PROJECTOR		FILMSTRIP/ SLIDE		AUTOMATIC F.S. PROJECTOR		ALL F.S. PROJ.	FILMSTRIP VIEWER		OVERHEAD PROJECTOR	
SPAN	NO. OF SCHOOLS	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE
1	843	2,401	2.85	760	.90	448	.53	2,351	2.79	2,042	2.42	488	.58	5.79	6,132	7.27	7,617	9.04
2	550	3,294	5.99	1,215	2.21	479	.87	1,707	3.10	1,849	3.36	701	1.27	7.74	2,586	4.70	7,655	13.92
3	55	224	4.07	55	1.00	40	.73	174	3.16	194	3.53	42	.76	7.45	369	6.71	574	10.44
4	60	286	4.77	110	1.83	43	.72	199	3.32	174	2.90	58	.97	7.18	394	6.57	666	11.10
5	34	143	4.21	55	1.62	61	1.79	116	3.41	85	2.50	13	.38	6.29	112	3.29	371	10.91
TOTAL	1,542	6,348	4.12	2,195	1.42	1,071	.69	4,547	2.95	4,344	2.82	1,302	.84	6.61	9,593	6.22	16,883	10.95

		OPAQUE PROJECTOR		TV MONITOR		MICROPROJECTOR		RECORD PLAYER		REEL TAPE RECORDER		CASSETTE RECORDER		CASSETTE PLAYER		REC'DRS/ PLAYERS	CARTS	
SPAN	NO. OF SCHOOLS	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	AVERAGE	TOTAL	AVERAGE
1	843	1,052	1.25	2,132	2.53	386	.46	8,803	10.44	2,253	2.67	9,081	10.77	3,172	3.76	17.21	9,022	10.70
2	550	1,021	1.86	1,373	2.50	401	.73	4,521	8.22	2,785	5.06	6,139	11.16	2,556	4.65	20.87	7,770	14.13
3	55	95	1.73	86	1.56	29	.53	621	11.29	168	3.05	663	12.05	177	3.22	18.33	504	9.16
4	60	92	1.43	126	2.10	30	.50	401	6.68	212	3.53	696	11.60	257	4.28	19.42	631	10.52
5	34	55	1.62	113	3.23	20	.59	307	9.03	113	3.32	319	9.38	85	2.50	15.21	325	9.56
TOTAL	1,542	2,315	1.50	3,830	2.48	866	.56	14,653	9.50	5,531	3.59	16,898	10.96	6,247	4.05	18.60	18,252	11.84

TABLE 4.21 con't.

		LISTENING STATIONS		WALL SCREEN		PORTABLE SCREEN		COPY MACHINE		DUPLICATOR		VTR		WIRELESS MICROPHONE		MICROFORM READER		READER/PRINTER	
SPAN	NO. OF SCHOOLS	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE
1	843	7,530	8.93	8,845	10.49	1,428	1.69	833	.99	1,221	1.45	241	.29	29	.03	60	.07	5	.01
2	550	1,175	3.95	8,292	15.08	1,634	2.97	919	1.67	1,073	1.95	741	1.35	113	.21	379	.69	70	.13
3	55	400	7.27	630	11.45	140	2.55	77	1.40	90	1.64	24	.44	0	.00	3	.05	0	.00
4	60	316	5.27	715	11.92	127	2.12	87	1.45	103	1.72	50	.83	5	.08	13	.22	1	.02
5	34	239	7.03	368	10.82	123	3.62	65	1.91	80	2.35	34	1.00	3	.09	20	.59	1	.03
TOTAL	1,542	10,660	6.91	18,850	12.22	3,452	2.24	1,981	1.28	2,567	1.66	1,090	.71	150	.10	475	.31	77	.05

TABLE 4.22
Total Numbers and Averages of Equipment for Each Span with Detail by Size

			16MM PROJECTORS		SLIDE PROJECTORS		SLIDE VIEWERS		SILENT/FILMSTRIP PROJECTORS		FILMSTRIP/SLIDE PROJECTORS		SOUND/FILMSTRIP PROJECTORS		FILMSTRIP VIEWERS		OVERHEAD PROJECTORS	
SPAN	SIZE	SCHOOLS	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE
1	1	87	182	2.09	89	1.02	40	0.46	176	2.02	141	1.62	32	0.37	272	3.13	531	6.10
	2	84	187	2.23	75	0.89	37	0.44	197	2.35	179	2.13	31	0.38	319	3.80	558	6.64
	3	82	215	2.62	65	0.79	44	0.54	221	2.70	180	2.20	58	0.71	440	5.37	731	8.91
	4	76	206	2.71	90	1.18	67	0.88	277	3.64	145	1.91	27	0.36	449	5.91	675	8.88
	5	68	157	2.31	35	0.51	20	0.29	143	2.10	166	2.44	38	0.56	413	6.07	487	7.16
	6	113	302	2.67	116	1.03	103	0.91	310	2.47	234	2.07	41	0.36	687	6.08	874	7.73
	7	333	1,152	3.46	290	0.87	137	0.41	1,027	3.08	997	2.99	261	0.78	3,552	10.67	3,761	11.29
	TOTAL	843	2,401	2.85	760	0.90	448	0.53	2,351	2.79	2,042	2.42	488	0.58	6,132	7.27	7,617	9.04
2	1	117	344	2.94	152	1.30	84	0.72	233	1.99	203	1.74	44	0.38	205	1.75	773	6.61
	2	84	367	4.37	137	1.63	52	0.62	197	2.35	149	1.77	63	0.75	193	2.30	731	8.70
	3	87	404	4.64	144	1.66	65	0.75	234	2.69	238	2.74	81	0.93	243	2.79	969	11.14
	4	59	315	5.34	130	2.20	39	0.66	230	3.90	137	2.32	58	0.98	271	4.59	742	12.58
	5	34	190	5.59	77	2.26	31	0.91	137	4.03	106	3.12	38	1.12	182	5.35	427	12.56
	6	58	413	7.12	173	2.98	57	0.98	243	4.19	272	4.69	112	1.93	484	8.34	939	16.19
	7	111	1,261	11.36	402	3.62	151	1.36	433	3.90	744	6.70	305	2.75	1,008	9.08	3,074	27.69
	TOTAL	550	3,294	5.99	1,215	2.21	479	0.87	1,707	3.10	1,849	3.36	701	1.27	2,586	4.70	7,655	13.92
3	1	18	44	2.44	12	0.67	11	0.61	42	2.33	29	1.61	10	0.56	52	2.89	100	5.56
	2	12	35	2.92	11	0.92	5	0.42	35	2.92	26	3.00	5	0.42	45	3.75	97	8.08
	3	8	45	5.63	4	0.50	9	1.13	51	6.38	19	2.38	3	0.38	72	9.00	103	12.88
	4	10	26	2.60	7	0.70	5	0.50	16	1.60	40	4.00	2	0.20	56	5.60	117	11.70
	5	1	10	10.00	4	4.00	0	0.00	0	0.00	22	22.00	5	5.00	59	59.00	19	19.00
	6	1	10	10.00	2	4.00	8	8.00	0	0.00	16	16.00	13	13.00	12	12.00	27	27.00
	7	5	54	10.80	15	3.00	2	0.40	30	6.00	42	8.40	4	0.80	73	14.60	111	22.20
	TOTAL	55	224	4.07	55	1.00	40	0.73	174	3.16	194	3.53	42	0.76	369	6.71	574	10.44
4	1	5	8	1.60	3	0.60	2	0.40	10	2.00	4	0.80	3	0.60	10	2.00	26	5.20
	2	11	31	2.82	18	1.64	8	0.73	22	2.00	12	1.09	1	0.09	33	3.00	69	6.27
	3	13	41	3.15	15	1.15	10	0.78	38	2.92	22	1.69	4	0.31	75	5.77	96	7.38
	4	13	57	4.38	25	1.92	14	1.08	52	4.00	32	2.46	4	0.31	55	4.23	130	10.00
	5	5	27	5.40	5	1.00	0	0.00	14	2.80	7	1.40	3	0.60	32	6.40	44	8.80
	6	4	48	12.00	21	5.25	2	0.50	45	11.25	22	5.50	9	2.25	80	20.00	98	24.50
	7	9	74	8.22	23	2.56	7	0.78	18	2.00	75	8.33	34	3.78	109	12.11	203	22.56
	TOTAL	60	286	4.77	110	1.83	43	0.72	199	3.32	174	2.90	58	0.97	394	6.57	666	11.10
5	1	25	95	3.80	41	1.64	17	0.68	74	2.96	59	2.36	6	0.24	69	2.76	232	9.28
	2	8	42	5.25	13	1.63	42	5.25	40	5.00	22	2.75	7	0.88	41	5.13	129	16.13
	3	0	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
	4	1	6	6.00	1	1.00	2	2.00	2	2.00	4	4.00	0	0.00	2	2.00	10	10.00
	5	0	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
	6	0	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
	7	0	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
	TOTAL	34	143	4.21	55	1.62	61	1.79	116	3.41	85	2.50	13	0.38	112	3.29	371	10.91
GRAND TOTAL		1,542	6,348	4.12	2,195	1.42	1,071	0.69	4,547	2.95	4,344	2.82	1,302	0.84	9,593	6.22	16,883	10.95

TABLE 4.22 con't.

			OPAQUE PROJECTOR		TV MONITOR		MICROSCOPE PROJECTOR		RECORD PLAYER		REEL RECORDER		CASSETTE RECORDER		CASSETTE PLAYER		CART	
SPAN	SIZE	SCHOOLS	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE
1	1	87	99	1.14	132	1.52	54	0.62	514	5.91	174	2.00	500	5.75	159	1.83	392	4.51
	2	84	98	1.17	162	1.93	62	0.74	574	6.83	176	2.10	681	8.11	195	2.32	525	6.25
	3	82	109	1.33	220	2.68	25	0.30	742	9.05	208	2.54	869	10.60	305	3.72	746	9.10
	4	76	110	1.45	169	2.22	15	0.20	717	9.43	191	2.51	905	11.91	175	2.30	664	8.74
	5	68	75	1.10	180	2.65	32	0.47	571	8.40	137	2.01	624	9.18	178	2.62	616	9.06
	6	113	141	1.25	222	1.96	58	0.51	1,054	9.33	225	1.99	1,204	10.65	432	3.82	1,320	11.68
	7	333	420	1.26	1,047	3.14	140	0.42	4,631	13.91	1,142	3.43	4,298	12.91	1,728	5.19	4,759	14.29
	TOTAL	843	1,052	1.25	2,132	2.53	386	0.46	8,803	10.44	2,253	2.67	9,081	10.77	3,172	3.76	9,022	10.70
2	1	117	131	1.12	120	1.03	58	0.50	509	4.35	285	2.44	532	4.55	227	1.94	526	4.50
	2	84	115	1.37	144	1.23	49	0.58	456	5.43	272	3.24	563	6.70	226	2.69	599	7.13
	3	87	151	1.74	150	1.72	54	0.62	535	6.15	277	3.18	834	9.59	260	2.99	721	8.29
	4	59	100	1.69	117	1.98	20	0.34	448	7.59	238	4.03	683	11.58	201	3.41	638	10.81
	5	34	54	1.59	74	2.18	18	0.53	287	8.44	162	4.76	463	13.62	143	4.21	387	11.38
	6	58	123	2.12	202	3.48	16	0.28	590	10.17	378	6.52	1,005	17.33	398	6.86	1,094	18.86
	7	111	347	3.13	566	5.10	186	1.68	1,696	15.28	1,173	10.57	2,059	18.55	1,101	9.92	3,805	34.28
	TOTAL	550	1,021	1.86	1,373	2.50	401	0.73	4,521	8.22	2,785	5.06	6,139	11.16	2,556	4.65	7,770	14.13
3	1	18	20	1.11	24	1.33	12	0.67	120	6.67	36	2.00	110	6.11	29	1.61	98	5.44
	2	12	15	1.25	18	1.50	4	0.33	108	9.00	23	1.92	132	11.00	19	1.58	79	6.58
	3	8	27	3.38	18	2.25	10	1.25	97	12.13	43	5.38	99	12.38	30	3.75	113	14.13
	4	10	14	1.40	12	1.20	0	0.00	78	7.80	33	3.30	111	11.10	20	2.00	111	11.10
	5	1	2	2.00	1	1.00	1	1.00	28	28.00	6	6.00	54	54.00	47	47.00	19	19.00
	6	1	6	6.00	3	3.00	0	0.00	40	40.00	8	8.00	40	40.00	0	0.00	10	10.00
	7	5	11	2.20	10	2.00	2	0.40	150	30.00	19	3.80	117	23.40	32	6.40	74	14.80
	TOTAL	55	95	1.73	86	1.56	29	0.53	621	11.29	168	3.05	663	12.05	177	3.22	504	9.16
4	1	5	5	1.00	4	0.80	1	0.20	16	3.20	11	2.20	14	2.80	23	4.60	6	1.20
	2	11	10	0.91	13	1.18	4	0.36	44	4.00	28	2.55	69	6.27	12	1.09	46	4.18
	3	13	22	1.69	20	1.54	3	0.23	51	3.92	24	1.85	102	7.85	15	1.15	85	6.54
	4	13	20	1.54	24	1.85	17	1.31	83	6.38	33	2.54	169	13.00	50	3.85	114	8.77
	5	5	6	1.20	10	2.00	1	1.00	34	6.80	14	2.80	29	5.80	13	2.60	29	5.80
	6	4	12	3.00	12	3.00	1	0.25	44	11.00	35	8.75	116	29.00	71	17.75	118	29.50
	7	9	17	1.89	43	4.78	3	0.33	129	14.33	67	7.44	197	21.89	73	8.11	233	25.89
	TOTAL	60	92	1.53	126	2.10	30	0.50	401	6.68	212	3.53	696	11.60	257	4.28	631	10.52
5	1	25	36	1.44	65	2.60	15	0.60	199	7.96	78	3.12	193	7.72	43	1.72	227	9.08
	2	8	15	1.88	45	5.63	3	0.38	93	11.63	29	3.63	106	13.25	36	4.50	83	10.38
	3	0	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
	4	1	4	4.00	3	3.00	2	2.00	15	15.00	6	6.00	20	20.00	6	6.00	15	15.00
	5	0	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
	6	0	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
	7	0	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
	TOTAL	34	55	1.62	113	3.23	20	0.59	307	9.03	113	3.32	319	9.38	85	2.50	325	9.56
GRAND TOTAL		1,542	2,315	1.50	3,830	2.48	866	0.56	14,653	9.50	5,531	3.59	16,898	10.96	6,247	4.05	18,252	11.84

TABLE 4.22 con't.

			LISTENING STATIONS		MOUNTED SCREENS		PORTABLE SCREENS		COPY MACHINES		DUPLICATING MACHINES		VTR		WIRELESS MICROPHONES		MICROFORM READERS		MICROFORM READER/PRINTERS	
SPAN	SIZE	SCHOOLS	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE
1	1	87	358	4.11	543	6.24	151	1.74	88	1.01	110	1.26	37	0.43	2	0.02	11	0.13	3	0.03
	2	84	472	5.62	631	7.51	129	1.54	81	0.96	90	1.07	32	0.38	1	0.01	6	0.07	1	0.01
	3	82	653	7.96	798	9.73	136	1.66	86	1.05	116	1.41	26	0.32	2	0.02	18	0.22	1	0.01
	4	76	675	8.88	781	10.28	133	1.75	75	0.99	108	1.42	21	0.28	0	0.00	6	0.08	0	0.00
	5	68	558	8.21	542	7.97	98	1.44	63	0.93	94	1.38	11	0.16	1	0.01	4	0.06	0	0.00
	6	113	981	8.68	1,056	9.35	195	1.73	90	0.80	150	1.33	40	0.35	8	0.07	6	0.05	0	0.00
	7	333	3,833	11.51	4,494	13.50	586	1.76	350	1.05	553	1.66	74	0.22	15	0.05	9	0.03	0	0.00
	TOTAL	843	7,530	8.93	8,845	10.49	1,428	1.69	833	0.99	1,221	1.45	241	0.29	2[illegible]	0.03	60	0.07	5	0.01
2	1	117	201	1.72	707	6.04	279	2.38	184	1.57	207	1.78	84	0.72	9	0.08	56	0.48	9	0.08
	2	84	263	3.13	742	8.83	193	2.30	130	1.55	148	1.76	86	1.02	14	0.17	41	0.49	6	0.07
	3	87	257	2.95	924	10.62	234	2.69	143	1.64	178	2.05	105	1.21	19	0.22	58	0.67	11	0.13
	4	59	264	4.47	764	12.95	165	2.80	91	1.54	107	1.81	82	1.39	10	0.17	44	0.75	4	0.07
	5	34	93	2.74	543	15.97	90	2.65	53	1.56	71	2.09	46	1.35	2	0.06	20	0.59	5	0.15
	6	58	371	6.40	1,055	18.19	230	3.97	99	1.71	129	2.22	106	1.83	13	0.22	50	0.86	13	0.22
	7	111	726	6.54	3,557	32.05	443	3.99	219	1.97	233	2.10	232	2.09	46	0.41	110	0.99	22	0.20
	TOTAL	550	2,175	3.95	8,292	15.08	1,643	2.97	919	1.67	1,073	1.95	741	1.35	113	0.21	379	0.69	70	0.13
3	1	18	58	3.22	127	7.06	35	1.94	18	1.00	18	1.00	3	0.17	0	0.00	1	0.06	0	0.00
	2	12	64	5.33	135	11.25	33	2.75	22	1.83	20	1.67	7	0.58	0	0.00	0	0.00	0	0.00
	3	8	56	7.00	83	10.38	31	3.88	12	1.50	18	2.25	3	0.38	0	0.00	1	0.13	0	0.00
	4	10	73	7.30	110	11.00	9	0.90	10	1.00	13	1.30	6	0.60	0	0.00	1	0.10	0	0.00
	5	1	43	43.00	34	34.00	5	5.00	2	2.00	3	3.00	1	1.00	0	0.00	0	0.00	0	0.00
	6	1	30	30.00	15	15.00	11	11.00	6	6.00	7	7.00	1	1.00	0	0.00	0	0.00	0	0.00
	7	5	76	15.20	126	25.20	16	3.20	7	1.40	11	2.20	3	0.60	0	0.00	0	0.00	0	0.00
	TOTAL	55	400	7.27	630	11.45	140	2.55	77	1.44	90	1.64	24	0.44	0	0.00	3	0.05	0	0.00
4	1	5	16	3.20	20	4.00	6	1.20	7	1.40	5	1.00	2	0.40	1	0.20	1	0.20	0	0.00
	2	11	18	1.64	56	5.09	20	1.82	12	1.09	12	1.09	5	0.45	0	0.00	3	0.27	0	0.00
	3	13	62	4.77	108	8.31	30	2.31	19	1.46	19	1.46	6	0.46	0	0.00	2	0.15	0	0.00
	4	13	65	5.00	128	9.85	25	1.92	18	1.38	17	1.31	13	1.00	0	0.00	3	0.23	0	0.00
	5	5	9	1.80	78	15.60	8	1.60	5	1.00	6	1.20	4	0.80	0	0.00	0	0.00	0	0.00
	6	4	42	10.50	61	15.25	10	2.50	10	2.50	11	2.75	7	1.75	0	0.00	2	0.50	1	0.25
	7	9	104	11.56	264	29.33	28	3.11	16	1.78	33	3.67	13	1.44	4	0.44	2	0.22	0	0.00
	TOTAL	60	316	5.27	715	11.92	127	2.12	87	1.45	103	1.72	50	0.83	5	0.08	13	0.22	1	0.02
5	1	25	138	5.52	243	9.72	67	2.68	45	1.80	61	2.44	21	0.84	2	0.08	15	0.60	1	0.04
	2	8	93	11.63	125	15.63	50	6.25	20	2.50	19	2.38	10	1.25	1	0.13	5	0.63	0	0.00
	3	0	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
	4	1	8	8.00	0	0.00	6	6.00	0	0.00	0	0.00	3	3.00	0	0.00	0	0.00	0	0.00
	5	0	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
	6	0	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
	7	0	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
	TOTAL	34	239	7.03	368	10.82	123	3.62	65	1.91	80	2.35	34	1.00	3	0.09	20	0.59	1	0.03
GRAND	TOTAL	1,542	10,660	6.91	18,850	12.22	3,452	2.24	1,981	1.28	2,567	1.66	1,090	0.71	150	0.10	475	0.31	77	0.05

TABLE 4.23

Total Numbers and Averages of Equipment for Each Size

		16MM PROJECTORS		SLIDE PROJECTORS		SLIDE VIEWERS		SILENT FILMSTRIP PROJECTORS		FILMSTRIP/SLIDE PROJECTORS		SOUND FILMSTRIP PROJECTORS		FILMSTRIP VIEWERS		OVERHEAD PROJECTORS	
SIZE	SCHOOLS	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE
1	252	673	2.67	297	1.18	154	0.61	535	2.12	436	1.73	95	0.38	608	2.41	1,662	6.60
2	199	662	3.33	254	1.28	144	0.72	491	2.47	388	1.95	107	0.54	631	3.17	1,584	7.96
3	190	705	3.71	228	1.20	128	0.67	544	2.86	459	2.42	146	0.77	830	4.37	1,899	9.99
4	159	610	3.84	253	1.59	127	0.80	577	3.63	358	2.25	91	0.57	833	5.24	1,674	10.53
5	108	384	3.56	121	1.12	51	0.47	294	2.72	301	2.79	84	0.78	686	6.35	977	9.05
6	176	773	4.39	312	1.77	170	0.97	598	3.40	544	3.09	175	0.99	1,263	7.18	1,938	11.01
7	458	2,541	5.55	730	1.59	297	0.65	1,508	3.29	1,858	4.06	604	1.32	4,742	10.35	7,149	15.61
TOTAL	1,542	6,348	4.12	2,195	1.42	1,071	0.69	4,547	2.95	4,344	2.82	1,302	0.84	9,593	6.22	16,883	10.95

		OPAQUE PROJECTORS		TV MONITORS		MICROPROJECTORS		RECORD PLAYERS		REEL RECORDERS		CASSETTE RECORDERS		CASSETTE PLAYERS		CARTS	
SIZE	SCHOOLS	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE
1	252	291	1.15	345	1.37	140	0.56	1,358	5.39	584	2.32	1,349	5.35	481	1.91	1,249	4.96
2	199	253	1.27	382	1.92	122	0.61	1,275	6.41	528	2.65	1,551	7.79	488	2.45	1,332	6.69
3	190	309	1.63	408	2.15	92	0.48	1,425	7.50	552	2.91	1,904	10.02	610	3.21	1,665	8.76
4	159	248	1.56	325	2.04	54	0.34	1,341	8.43	501	3.15	1,888	11.87	452	2.84	1,542	9.70
5	108	137	1.27	265	2.45	52	0.48	920	8.52	319	2.95	1,170	10.83	381	3.53	1,051	9.73
6	176	282	1.60	439	2.49	75	0.43	1,728	9.82	646	3.67	2,365	13.44	901	5.12	2,542	14.44
7	458	795	1.74	1,666	3.64	331	0.72	6,606	14.42	2,401	5.24	6,671	14.57	2,934	6.41	8,871	19.37
TOTAL	1,542	2,315	1.50	3,830	2.48	866	0.56	14,653	9.50	5,531	3.59	16,898	10.96	6,247	4.05	18,252	11.84

		LISTENING STATIONS		MOUNTED SCREENS		PORTABLE SCREENS		COPY MACHINES		DUPLICATORS		VTR		WIRELESS MICROPHONES		MICROFORM READERS	
SIZE	SCHOOLS	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE	TOTAL	AVERAGE
1	252	771	3.06	1,640	6.51	538	2.13	342	1.36	401	1.59	147	0.58	14	0.06	84	0.33
2	199	910	4.57	1,689	8.49	425	2.14	265	1.33	289	1.45	140	0.70	16	0.08	55	0.28
3	190	1,028	5.41	1,913	10.07	431	2.27	260	1.37	331	1.74	140	0.74	21	0.11	70	0.42
4	159	1,085	6.82	1,783	11.21	338	2.13	194	1.22	245	1.54	125	0.79	10	0.06	54	0.34
5	108	703	6.51	1,197	11.08	201	1.86	123	1.14	174	1.61	62	0.57	3	0.03	24	0.22
6	176	1,424	8.09	2,187	12.43	446	2.53	205	1.16	297	1.69	154	0.88	21	0.12	58	0.33
7	458	4,739	10.35	8,441	18.43	1,073	2.34	592	1.29	830	1.81	322	0.70	65	0.14	121	0.26
TOTAL	1,542	10,660	6.91	18,850	12.22	3,452	2.24	1,981	1.28	2,567	1.66	1,090	0.71	150	0.10	475	0.31

		MICRO READER/PRINTER		ALL EQUIPMENT	
SIZE	SCHOOLS	TOTAL	AVERAGE	TOTAL	AVERAGE
1	252	13	0.05	14,207	56.38
2	199	7	0.04	13,988	70.29
3	190	12	0.06	16,110	84.79
4	159	4	0.03	14,712	92.53
5	108	5	0.05	9,685	89.68
6	176	14	0.08	19,557	111.12
7	458	22	0.05	65,909	143.91
TOTAL	1,542	77	0.05	154,177	99.99

TABLE 4.24
Total Numbers and Averages of Equipment for Each Size with Detail by Span

			16MM PROJECTORS		SLIDE PROJECTORS		SLIDE VIEWERS		SILENT FS PROJECTORS		FILMSTRIP/SLIDE PROJECTORS		SOUND FS PROJECTORS		FILMSTRIP VIEWERS		OVERHEAD PROJECTORS		OPAQUE PROJECTORS	
SIZE	SPAN	SCHOOLS	TOTAL	AVE.	TOTAL	AVE.	TOTAL	AVE.	TOTAL	AVE.	TOTAL	AVE.	TOTAL	AVE.	TOTAL	AVE.	TOTAL	AVE.	TOTAL	AVE.
1	1	87	182	2.09	89	1.02	40	0.46	176	2.02	141	1.62	32	0.37	272	3.13	531	6.10	99	1.14
	2	117	344	2.94	152	1.30	84	0.72	233	1.99	203	1.74	44	0.38	205	1.75	773	6.61	131	1.12
	3	18	44	2.44	12	0.67	11	0.61	42	2.33	29	1.61	10	0.56	52	2.89	100	5.56	20	1.11
	4	5	8	1.60	3	0.60	2	0.40	10	2.00	4	0.80	3	0.60	10	2.00	26	5.20	5	1.00
	5	25	95	3.80	41	1.64	17	0.68	74	2.96	59	2.36	6	0.24	69	2.76	232	9.28	36	1.44
TOTAL		252	673	2.67	297	1.18	154	0.61	535	2.12	436	1.73	95	0.38	608	2.41	1,662	6.60	291	1.15
2	1	84	187	2.23	75	0.89	37	0.44	197	2.35	179	2.13	31	0.38	319	3.80	558	6.64	98	1.17
	2	84	367	4.37	137	1.63	52	0.62	197	2.35	149	1.77	63	0.75	193	2.30	731	8.70	115	1.37
	3	12	35	2.92	11	0.92	5	0.42	35	2.92	26	3.00	5	0.42	45	3.75	97	8.08	15	1.25
	4	11	31	2.82	18	1.64	8	0.73	22	2.00	12	1.09	1	0.09	33	3.00	69	6.27	10	0.91
	5	8	42	5.25	13	1.63	42	5.25	40	5.00	22	2.75	7	0.88	41	5.13	129	16.13	15	1.88
TOTAL		199	662	3.33	254	1.28	144	0.72	491	2.47	388	1.95	107	0.54	631	3.17	1,584	7.96	253	1.27
3	1	82	215	2.62	65	0.79	44	0.54	221	2.70	180	2.20	58	0.71	440	5.37	731	8.91	109	1.33
	2	87	404	4.64	144	1.66	65	0.75	234	2.69	238	2.74	81	0.93	243	2.79	969	11.14	151	1.74
	3	8	45	5.63	4	0.50	9	1.13	51	6.38	19	2.38	3	0.38	72	9.00	103	12.88	27	3.38
	4	13	41	3.15	15	1.15	10	0.78	38	2.92	22	1.69	4	0.31	75	5.77	96	7.38	22	1.69
	5	0	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
TOTAL		190	705	3.71	228	1.20	128	0.67	544	2.86	459	2.42	146	0.77	830	4.37	1,899	9.99	309	1.63
4	1	76	206	2.71	90	1.18	67	0.88	277	3.64	145	1.91	27	0.36	449	5.91	675	8.88	110	1.45
	2	59	315	5.34	130	2.20	39	0.66	230	3.90	137	2.32	58	0.98	271	4.59	742	12.58	100	1.69
	3	10	26	2.60	7	0.70	5	0.50	16	1.60	40	4.00	2	0.20	56	5.60	117	11.70	14	1.40
	4	13	57	4.38	25	1.92	14	1.08	52	4.00	32	2.46	4	0.31	55	4.23	130	10.00	20	1.59
	5	1	6	6.00	1	1.00	2	2.00	2	2.00	4	4.00	0	0.00	2	2.00	10	10.00	4	4.00
TOTAL		159	610	3.84	253	1.59	127	0.80	577	3.63	358	2.25	91	0.57	833	5.24	1,674	10.53	248	1.56
5	1	68	157	2.31	35	0.51	20	0.29	143	2.10	166	2.44	38	0.56	413	6.07	487	7.16	75	1.10
	2	34	196	5.59	77	2.26	31	0.91	137	4.03	106	3.12	38	1.12	182	5.35	427	12.56	54	1.59
	3	1	10	10.00	4	4.00	0	0.00	0	0.00	22	22.00	5	5.00	59	59.00	19	19.00	2	2.00
	4	5	27	5.40	5	1.00	0	0.00	14	2.80	7	1.40	3	0.60	32	6.40	44	8.80	6	1.20
	5	0	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
TOTAL		108	384	3.56	121	1.12	51	0.47	294	2.72	301	2.79	84	0.78	686	6.35	977	9.05	137	1.27
6	1	113	302	2.67	116	1.03	103	0.91	310	2.74	234	2.07	41	0.36	687	6.08	874	7.73	141	1.25
	2	58	413	7.12	173	2.98	57	0.98	243	4.19	272	4.69	112	1.93	484	8.34	939	16.19	123	2.12
	3	1	10	10.00	2	2.00	8	8.00	0	0.00	16	16.00	13	13.00	12	12.00	27	27.00	6	6.00
	4	4	48	12.00	21	5.25	2	0.50	45	11.25	22	5.50	9	2.25	80	20.00	98	24.50	12	3.00
	5	0	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
TOTAL		176	773	4.39	312	1.77	170	0.97	598	3.40	544	3.09	175	0.99	1,263	7.18	1,938	11.01	282	1.60
7	1	333	1,152	3.46	290	0.87	137	0.41	1,027	3.08	497	2.99	261	0.78	3,552	10.67	3,761	11.29	420	1.26
	2	111	1,261	11.36	402	3.62	151	1.36	433	3.90	744	6.70	305	2.75	1,008	9.08	3,074	27.69	347	3.13
	3	5	54	10.80	15	3.00	2	0.40	30	6.00	42	8.40	4	0.80	73	14.60	111	22.20	11	2.20
	4	9	74	8.22	23	2.56	7	0.78	18	2.00	75	8.33	34	3.78	109	12.11	203	22.56	17	1.89
	5	0	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
TOTAL		458	2,541	5.55	730	1.59	297	0.65	1,508	3.29	1,858	4.06	604	1.32	4,742	10.35	7,149	15.61	795	1.74

TABLE 4.24 con't.

			TV MONITORS		MICROSCOPE PROJECTOR		RECORD PLAYERS		REEL RECORDERS		CASSETTE RECORDERS		CASSETTE PLAYERS		CARTS		LISTENING STATIONS		MOUNTED SCREENS	
SIZE	SPAN	SCHOOLS	TOTAL	AVE.	TOTAL	AVE.	TOTAL	AVE.	TOTAL	AVE.	TOTAL	AVE.	TOTAL	AVE.	TOTAL	AVE.	TOTAL	AVE.	TOTAL	AVE.
1	1	87	132	1.52	54	0.62	514	5.91	174	2.00	500	5.75	159	1.83	392	4.51	358	4.11	543	6.24
	2	117	120	1.03	58	0.50	509	4.35	285	2.44	532	4.55	227	1.94	526	4.50	201	1.72	707	6.04
	3	18	24	1.33	12	0.67	120	6.67	36	2.00	110	6.11	29	1.61	98	5.44	58	3.22	127	7.06
	4	5	4	0.80	1	0.20	16	3.20	11	2.20	14	2.80	23	4.60	6	1.20	16	3.20	20	4.00
	5	25	65	2.60	15	0.60	199	7.96	78	3.12	193	7.72	43	1.72	227	9.08	138	5.52	243	9.72
TOTAL		252	345	1.37	140	0.56	1,358	5.39	584	2.32	1,349	5.35	481	1.91	1,249	4.96	771	3.06	1,640	6.51
2	1	84	162	1.93	62	0.74	574	6.83	176	2.10	681	8.11	195	2.32	525	6.25	472	5.62	631	7.51
	2	84	144	1.23	49	0.58	456	5.43	272	3.24	563	6.70	226	2.69	599	7.13	263	3.13	742	8.83
	3	12	18	1.50	4	0.33	108	9.00	23	1.92	132	11.00	19	1.58	79	6.58	64	5.33	135	11.25
	4	11	13	1.18	4	0.36	44	4.00	28	2.55	69	6.27	12	1.09	46	4.18	18	1.64	56	5.09
	5	8	45	5.63	3	0.38	93	11.63	29	3.63	106	13.25	36	4.50	83	10.38	93	11.63	125	15.63
TOTAL		199	382	1.92	122	0.61	1,275	6.41	528	2.65	1,551	7.79	488	2.45	1,332	6.69	910	4.57	1,689	8.49
3	1	82	220	2.68	25	0.30	742	9.05	208	2.54	869	10.60	305	3.72	746	9.10	653	7.96	798	9.73
	2	87	150	1.72	54	0.62	535	6.15	277	3.18	834	9.59	260	2.99	721	8.29	257	2.95	924	10.62
	3	8	18	2.25	10	1.25	97	12.13	43	5.38	99	12.38	30	3.75	113	14.13	56	7.00	83	10.38
	4	13	20	1.54	3	0.23	51	3.92	24	1.85	102	7.85	15	1.15	85	6.54	62	4.77	108	8.31
	5	0	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
TOTAL		190	408	2.15	92	0.48	1,425	7.50	552	2.91	1,904	10.02	610	3.21	1,665	8.76	1,028	5.41	1,913	10.07
4	1	76	169	2.22	15	0.20	717	9.43	191	2.51	905	11.91	175	2.30	664	8.74	675	8.88	781	10.28
	2	59	117	1.98	20	0.34	448	7.59	238	4.03	683	11.58	201	3.41	638	10.81	264	4.47	764	12.95
	3	10	12	1.20	0	0.00	78	7.80	33	3.30	111	11.10	20	2.00	111	11.10	73	7.30	110	11.00
	4	13	24	1.85	17	1.31	83	6.38	33	2.54	169	13.00	50	3.85	114	8.77	65	5.00	128	9.85
	5	1	3	3.00	2	2.00	15	15.00	6	6.00	20	20.00	6	6.00	15	15.00	8	8.00	0	0.00
TOTAL		159	325	2.04	54	0.34	1,341	8.43	501	3.15	1,888	11.87	452	2.84	1,542	9.70	1,085	6.82	1,783	11.21
5	1	68	180	2.65	32	0.47	571	8.40	137	2.01	624	9.18	178	2.62	616	9.06	558	8.21	542	7.97
	2	34	74	2.18	18	0.53	287	8.44	162	4.76	463	13.62	143	4.21	387	11.38	93	2.74	543	15.97
	3	1	1	1.00	1	1.00	28	28.00	6	6.00	54	54.00	47	47.00	19	19.00	43	43.00	34	34.00
	4	5	10	2.00	1	10.00	34	6.80	14	2.80	29	5.80	13	2.60	29	5.80	9	1.80	78	15.60
	5	0	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
TOTAL		108	265	2.45	52	0.48	920	8.52	319	2.95	1,170	10.83	381	3.53	1,051	9.73	703	6.51	1,197	11.08
6	1	113	222	1.96	58	0.51	1,054	9.33	225	1.99	1,204	10.65	432	3.82	1,320	11.68	981	8.68	1,056	9.35
	2	58	202	3.48	16	0.28	590	10.17	378	6.52	1,005	17.33	398	6.86	1,094	18.86	371	6.40	1,055	18.19
	3	1	3	3.00	0	0.00	40	40.00	8	8.00	40	40.00	0	0.00	10	10.00	30	30.00	15	15.00
	4	4	12	3.00	1	0.25	44	11.00	35	8.75	116	29.00	71	17.75	118	29.50	42	10.50	61	15.25
	5	0	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
TOTAL		176	439	2.49	75	0.43	1,728	9.82	646	3.67	2,365	13.44	901	5.12	2,542	14.44	1,424	8.09	2,187	12.43
7	1	333	1,047	3.14	140	0.42	4,631	13.91	1,142	3.43	4,298	12.91	1,728	5.19	4,759	14.29	3,833	11.51	4,494	13.50
	2	111	566	5.10	186	1.68	1,696	15.28	1,173	10.57	2,059	18.55	1,101	9.92	3,805	34.28	726	6.54	3,557	32.05
	3	5	10	2.00	2	0.40	150	30.00	19	3.80	117	23.40	32	6.40	74	14.80	76	15.20	126	25.20
	4	9	43	4.78	3	0.33	129	14.33	67	7.44	197	21.89	73	8.11	233	25.89	104	11.56	264	29.33
	5	0	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
TOTAL		458	1,666	3.64	331	0.72	6,606	14.42	2,401	5.24	6,671	14.57	2,934	6.41	8,871	19.37	4,739	10.35	8,441	18.43

TABLE 4.24 con't.

			PORTABLE SCREENS		COPY MACHINES		DUPLICATING MACHINES		VTR		WIRELESS MICROPHONES		MICORFORM READERS		MICROFORM READER/PRINTERS	
SIZE	SPAN	SCHOOLS	TOTAL	AVE.	TOTAL	AVE.	TOTAL	AVE.	TOTAL	AVE.	TOTAL	AVE.	TOTAL	AVE.	TOTAL	AVE.
1	1	87	151	1.74	88	1.01	110	1.26	37	0.43	2	0.02	11	0.13	3	0.03
	2	117	279	2.38	184	1.47	207	1.78	84	0.72	9	0.08	56	0.48	9	0.08
	3	18	35	1.94	18	1.00	18	1.00	3	0.17	0	0.00	1	0.06	0	0.00
	4	5	6	1.20	7	1.40	5	1.00	2	0.40	1	0.20	1	0.20	0	0.00
	5	25	67	2.68	45	1.80	61	2.44	21	0.84	2	0.08	15	0.60	1	0.04
TOTAL		252	538	2.13	342	1.36	401	1.59	147	0.58	14	0.06	84	0.33	13	0.05
2	1	84	129	1.54	81	0.96	90	1.07	32	0.38	1	0.01	6	0.07	1	0.01
	2	84	193	2.30	130	1.55	148	1.76	86	1.02	14	0.17	41	0.49	6	0.07
	3	12	33	2.75	22	1.83	20	1.67	7	0.58	0	0.00	0	0.00	0	0.00
	4	11	20	1.82	12	1.00	12	1.09	5	0.45	0	0.00	3	0.27	0	0.00
	5	8	50	6.25	20	2.50	19	2.38	10	1.25	1	0.13	5	0.63	0	0.00
TOTAL		199	425	2.14	265	1.33	289	1.45	140	0.70	16	0.08	55	0.28	7	0.04
3	1	82	136	1.66	86	1.05	116	1.41	26	0.32	2	0.02	18	0.22	1	0.01
	2	87	234	2.69	143	1.64	178	2.05	105	1.21	19	0.22	58	0.67	11	0.13
	3	8	31	3.88	12	1.50	18	2.25	3	0.38	0	0.00	1	0.13	0	0.00
	4	13	30	2.31	19	1.46	19	1.46	6	0.46	0	0.00	2	0.15	0	0.00
	5	0	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
TOTAL		190	431	2.27	260	1.37	331	1.74	140	0.74	21	0.11	79	0.42	12	0.06
4	1	76	133	1.75	75	0.99	108	1.42	21	0.28	0	0.00	6	0.08	0	0.00
	2	59	165	2.80	91	1.54	107	1.81	82	1.39	10	0.17	44	0.75	4	0.07
	3	10	9	0.90	10	1.00	13	1.30	6	0.60	0	0.00	1	0.10	0	0.00
	4	13	25	1.92	18	1.38	17	1.31	13	1.00	0	0.00	3	0.23	0	0.00
	5	1	6	6.00	0	0.00	0	0.00	3	3.00	0	0.00	0	0.00	0	0.00
TOTAL		159	338	2.13	194	1.22	245	1.54	125	0.79	10	0.06	54	0.34	4	0.03
5	1	68	98	1.44	63	0.93	94	1.38	11	0.16	1	0.01	4	0.06	0	0.00
	2	34	90	2.65	53	1.56	71	2.09	46	1.35	2	0.06	20	0.59	5	0.15
	3	1	5	5.00	2	2.00	3	3.00	1	1.00	0	0.00	0	0.00	0	0.00
	4	5	8	1.60	5	1.00	6	1.20	4	0.80	0	0.00	0	0.00	0	0.00
	5	0	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
TOTAL		108	201	1.86	123	1.14	174	1.61	62	0.57	3	0.03	24	0.22	5	0.05
6	1	113	195	1.73	90	0.80	150	1.33	40	0.35	8	0.07	6	0.05	0	0.00
	2	58	230	3.97	99	1.71	129	2.22	106	1.83	13	0.22	50	0.86	13	0.22
	3	1	11	11.00	6	6.00	7	7.00	1	1.00	0	0.00	0	0.00	0	0.00
	4	4	10	2.50	10	2.50	11	2.75	7	1.75	0	0.00	2	0.50	1	0.25
	5	0	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
TOTAL		176	446	2.53	205	1.16	297	1.69	154	0.88	21	0.12	58	0.33	14	0.08
7	1	333	586	1.76	350	1.05	553	1.66	74	0.22	15	0.05	9	0.03	0	0.00
	2	111	443	3.99	219	1.97	233	2.10	232	2.09	46	0.41	110	0.99	22	0.20
	3	5	16	3.20	7	1.40	11	2.20	3	0.60	0	0.00	0	0.00	0	0.00
	4	9	28	3.11	16	1.78	33	3.67	13	1.44	4	0.44	2	0.22	0	0.00
	5	0	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
TOTAL		458	1,073	2.34	592	1.29	830	1.81	322	0.70	65	0.14	121	0.26	22	0.05

TABLE 4.25
Ratios of Equipment to Students and Teachers with Selected Equipment Items Per Building Floor

SPAN	ENROLL-MENT	TEACHERS	FLOORS	16MM	EQ/STU RATIO	EQ/TCH RATIO	EQ PER FLOOR	SLIDE PROJ.	EQ/STU RATIO	EQ/TCH RATIO	SLIDE VIEWER	EQ/STU RATIO	EQ/TCH RATIO	FILMSTRIP PROJ.	EQ/STU RATIO	EQ/TCH RATIO
1	238,628	12,062.4	1,767	2,401	99.39	5.02	1.36	760	313.98	15.87	448	532.65	26.93	2,351	101.50	5.13
2	254,925	14,936.3	1,342	3,294	77.39	4.53	2.45	1,215	209.81	12.29	479	532.20	31.18	1,707	149.34	8.75
3	20,957	1,217.5	138	224	93.56	5.44	1.62	55	381.04	22.14	40	523.93	30.44	174	120.44	7.00
4	22,434	1,293.0	160	286	78.44	4.52	1.79	110	203.95	11.75	43	521.72	30.07	199	112.73	6.50
5	12,236	823.2	96	143	85.57	5.76	1.49	55	222.47	14.97	61	200.59	13.50	116	105.48	7.10
TOTAL	549,180	30,322.4	3,503	6,348	86.51	4.78	1.81	2,195	250.20	13.82	1,071	512.77	28.32	4,547	120.78	6.67

SPAN	ENROLL-MENT	TEACHERS	FLOORS	FS/SLIDE PROJ.	EQ/STU RATIO	EQ/TCH RATIO	AUTO FS PROJ.	EQ/STU RATIO	EQ/TCH RATIO	ALL FS PROJ.	EQ/STU RATIO	EQ/TCH RATIO	FS VEWER	EQ/STU RATIO	EQ/STU RATIO
1	238,628	12,062.4	1,767	2,042	116.86	5.91	488	488.99	24.72	4,881	48.89	2.47	6,132	38.92	1.97
2	254,925	14,936.3	1,342	1,849	137.87	8.08	701	363.66	21.31	4,257	59.88	3.51	2,586	98.58	5.78
3	20,957	1,217.5	138	194	108.03	6.28	42	498.98	28.99	410	51.11	2.97	369	56.79	3.30
4	22,434	1,293.0	160	174	128.93	7.43	58	386.79	22.29	431	52.05	3.00	394	56.94	3.28
5	12,236	823.2	96	85	143.95	9.68	13	941.23	63.32	214	57.18	3.85	112	109.25	7.35
TOTAL	549,180	30,322.4	3,503	4,344	126.42	6.98	1,302	421.80	23.30	9,962	55.13	3.04	9,593	57.25	3.16

SPAN	ENROLL-MENT	TEACHERS	FLOORS	OVERHEAD PROJ.	EQ/STU RATIO	EQ/TCH RATIO	OPAQUE PROJ.	EQ/STU RATIO	EQ/TCH RATIO	EQ PER FLOOR	TV MONITOR	EQ/STU RATIO	EQ/TCH RATIO	EQ PER FLOOR	MICRO-PROJ.	EQ/STU RATIO	EQ/TCH RATIO
1	238,628	12,062.4	1,767	7,617	32.61	1.58	1,052	226.83	11.47	0.60	2,132	111.93	5.66	1.21	386	618.21	31.25
2	254,925	14,936.3	1,342	7,655	33.30	1.95	1,021	249.68	14.63	0.76	1,373	185.67	10.88	1.02	401	635.72	37.25
3	20,957	1,217.5	138	574	36.51	2.12	95	220.60	12.82	0.69	86	243.69	14.16	0.62	29	722.66	41.98
4	22,434	1,293.0	160	666	33.68	1.94	92	243.85	14.05	0.58	126	178.05	10.26	0.79	30	747.80	43.10
5	12,236	823.2	96	371	32.98	2.22	55	222.47	14.97	0.57	113	108.28	7.29	1.18	20	611.80	41.16
TOTAL	549,180	30,322.4	3,503	16,883	32.53	1.80	2,315	237.23	13.10	0.66	3,830	143.39	7.92	1.09	866	634.16	35.03

SPAN	ENROLL-MENT	TEACHERS	FLOORS	RECORD PLAYER	EQ/STU RATIO	EQ/TCH RATIO	REEL-REEL RECORDER	EQ/STU RATIO	EQ/TCH RATIO	CASSETTE RECORDER	EQ/STU RATIO	EQ/TCH RATIO	CASSETTE PLAYER	EQ/STU RATIO	EQ/TCH RATIO
1	238,628	12,062.4	1,767	8,803	27.11	1.37	2,253	105.92	5.35	9,081	26.28	1.33	3,172	75.23	3.80
2	254,925	14,936.3	1,342	4,521	56.39	3.30	2,785	91.54	5.36	6,139	41.53	2.43	2,556	99.74	5.84
3	20,957	1,217.5	138	621	33.75	1.96	168	124.74	7.25	663	31.61	1.84	177	118.40	6.88
4	22,434	1,293.0	160	401	55.95	3.22	212	105.82	6.10	696	32.23	1.86	257	87.29	5.03
5	12,236	823.2	96	307	39.86	2.68	113	108.28	7.29	319	38.36	2.58	85	143.95	9.68
TOTAL	549,180	30,322.4	3.503	14,653	37.48	2.07	5,531	99.29	5.48	16,898	32.50	1.80	6,247	87.91	4.86

SPAN	ENROLL-MENT	TEACHERS	FLOORS	ALL TAPE PLAYERS	EQ/STU RATIO	EQ/TCH RATIO	CARTS	EQ/STU RATIO	EQ/TCH RATIO	EQ PER FLOOR	LISTENING STATIONS	EQ/STU RATIO	EQ/TCH RATIO	EQ PER FLOOR
1	238,628	12,062.4	1,767	14,506	16.45	0.83	9,022	26.45	1.34	5.11	7,530	31.69	1.60	4.26
2	254,925	14,936.3	1,342	11,480	22.21	1.30	7,770	32.81	1.92	5.79	2,175	117.21	6.87	1.62
3	20,957	1,217.5	138	1,008	20.79	1.21	504	41.58	2.42	3.65	400	52.39	3.04	2.90
4	22,434	1,293.0	160	1,165	19.26	1.12	631	35.55	2.05	3.94	316	70.99	4.09	1.98
5	12,236	823.2	96	517	23.67	1.59	325	37.65	2.53	3.39	239	51.20	3.44	2.49
TOTAL	549,180	30,322.4	3,503	28,676	19.15	1.06	18,252	30.09	1.66	5.21	10,660	51.52	2.85	3.04

TABLE 4,25 con't.

SPAN	ENROLL-MENT	TEACHERS	FLOORS	WALL SCREENS	EQ/STU RATIO	EQ/TCH RATIO	PORT. SCREENS	EQ/STU RATIO	EQ/TCH RATIO	ALL SCREENS	EQ/STU RATIO	EQ/TCH RATIO	COPY MACHINES	EQ/STU RATIO	EQ/TCH RATIO
1	238,628	12,062.4	1,767	8,845	26.98	1.36	1,428	167.11	8.45	10,273	23.23	1.17	833	286.47	14.48
2	254,925	14,936.3	1,342	8,292	30.74	1.80	1,634	156.01	9.14	9,926	25.68	1.50	919	277.39	16.25
3	20,957	1,217.5	138	630	33.27	1.93	140	149.69	8.70	870	24.09	1.40	77	272.17	15.81
4	22,434	1,293.0	160	715	31.38	1.81	127	176.65	10.18	842	26.64	1.54	87	257.86	14.86
5	12,236	823.2	96	368	33.25	2.24	123	99.48	6.69	491	24.92	1.68	65	188.25	12.67
TOTAL	549,180	30,322.4	3,503	18,850	29.13	1.61	3,452	159.09	8.79	22,302	24.62	1.36	1,981	277.22	15.31

SPAN	ENROLL-MENT	TEACHERS	FLOORS	DUPLI-CATORS	EQ/STU RATIO	EQ/TCH RATIO	VTR	EQ/STU RATIO	EQ/TCH RATIO	WIRELESS MIC.	EQ/STU RATIO	EQ/TCH RATIO	MICRO READERS	EQ/STU RATIO	EQ/TCH RATIO
1	238,628	12,062.4	1,767	1,221	195.44	9.88	241	990.16	50.05	29	8228.55	415.94	60	3977.13	201.04
2	254,925	14,936.3	1,342	1,073	237.58	13.92	741	344.03	20.16	113	2255.97	132.18	379	672.63	39.41
3	20,957	1,217.5	138	90	232.86	13.53	24	873.21	50.73	0	0.00	0.00	3	6985.67	405.83
4	22,434	1,293.0	160	103	217.81	12.55	50	448.68	25.86	5	4486.80	258.60	13	1725.69	99.46
5	12,236	823.2	96	80	152.95	10.29	34	359.88	24.21	3	4078.67	274.40	20	611.80	41.16
TOTAL	549,180	30,322.4	3,503	2,567	213.94	11.82	1,090	503.83	27.83	150	3661.20	202.22	475	1156.17	63.86

SPAN	ENROLL-MENT	TEACHERS	FLOORS	READER/PRINTER	EQ/STU RATIO	EQ/TCH RATIO	ALL MICRO READERS	EQ/STU RATIO	EQ/TCH RATIO
1	238,628	12,062.4	1,767	5	47725.60	2412.48	65	3671.20	185.58
2	254,925	14,936.3	1,342	70	3641.79	213.38	449	567.76	33.27
3	20,957	1,217.5	138	0	0.00	0.00	3	6985.67	405.83
4	22,434	1,293.0	160	1	22434.00	1293.00	14	1602.43	92.36
5	12,236	823.2	96	1	12236.00	823.20	21	582.67	39.20
TOTAL	549,180	30,322.4	3,503	77	7132.21	393.93	552	994.89	54.95

TABLE 5
Formal Seating in Media Center by Span

	SCHOOLS NOT MEETING STANDARDS					SCHOOLS MEETING STANDARDS					TOTAL				
SPAN CODE	SEATS	STUDENTS	% of STUDENTS	SCHOOLS	AVERAGE SEATS PER SCHOOL	SEATS	STUDENTS	% of STUDENTS	SCHOOLS	AVERAGE SEATS PER SCHOOL	SEATS	STUDENTS	% of STUDENTS	SCHOOLS	AVERAGE SEATS PER SCHOOL
1	11,805	157,431	7.50	624	18.92	11,610	81,197	14.30	219	53.01	23,415	238,628	9.81	843	27.78
2	5,027	47,653	10.55	173	29.06	29,492	207,272	14.23	377	78.23	34,519	254,925	13.54	550	62.76
3	605	10,582	5.72	36	16.81	1,049	10,375	10.11	19	55.21	1,654	20,957	7.89	55	30.07
4	624	6,460	9.66	28	22.28	2,006	15,974	12.56	32	62.69	2,630	22,434	11.72	60	43.83
5	366	5,349	6.84	15	22.40	1,074	6,887	15.59	19	56.52	1,440	12,236	11.77	34	42.35
TOTAL	18,427	227,475	8.10	876	21.04	45,231	321,705	14.06	666	67.91	63,658	549,180	11.59	1,542	41.28

TABLE 5.1
Formal Seating in Media Center by Size

	SCHOOLS NOT MEETING STANDARDS					SCHOOLS MEETING STANDARDS					TOTAL				
SIZE CODE	SEATS	STUDENTS	% of STUDENTS	SCHOOLS	AVERAGE SEATS PER SCHOOL	SEATS	STUDENTS	% of STUDENTS	SCHOOLS	AVERAGE SEATS PER SCHOOL	SEATS	STUDENTS	% of STUDENTS	SCHOOLS	AVERAGE SEATS PER SCHOOL
1	3,281	31,121	10.54	175	18.75	4,299	15,063	28.54	77	55.83	7,580	46,184	16.41	252	30.08
2	2,408	25,911	9.29	116	20.76	4,873	24,460	19.92	83	58.71	7,281	50,371	14.45	199	36.59
3	2,455	31,604	7.77	116	21.16	4,769	25,224	18.91	74	64.45	7,224	56,828	12.71	190	38.02
4	1,945	25,851	7.52	94	20.69	4,091	27,583	14.83	65	62.94	6,036	53,434	12.30	159	37.96
5	1,294	17.009	7.61	68	19.03	2,403	17,969	13.37	40	60.08	3,697	34,978	10.57	108	34.23
6	1,637	23,493	6.97	92	17.79	6,025	44,687	13.48	84	71.73	7,662	68,180	11.24	176	43.53
7	5,407	72,486	7.46	215	25.15	18,771	166,719	11.26	243	72.25	24,178	239,205	10.11	458	52.79
Total	18,427	227,475	8.10	876	21.04	45,231	321,705	14.06	666	67.91	63,658	549,180	11.59	1,542	41.28

TABLE 5.2
Formal Seating in Media Center by Span with Detail by Size

		SCHOOLS NOT MEETING STANDARDS					SCHOOLS MEETING STANDARDS					TOTAL				
SPAN CODE	SIZE CODE	SEATS	STUDENTS	% of STUDENTS	SCHOOLS	AVERAGE SEATS PER SCHOOL	SEATS	STUDENTS	% of STUDENTS	SCHOOLS	AVERAGE SEATS PER SCHOOL	SEATS	STUDENTS	% of STUDENTS	SCHOOLS	SCHOOL
1	1	1,109	12,300	9.02	77	14.40	434	1,359	31.94	10	43.40	1,543	13,659	11.30	87	17.74
	2	1,227	15,346	8.00	71	17.28	615	3,763	16.34	13	47.31	1,842	19,109	9.64	84	21.93
	3	1,164	18,886	6.16	71	16.39	522	3,510	14.87	11	47.45	1,686	22,396	7.53	82	20.56
	4	1,183	16,106	7.35	65	18.20	528	3,725	14.17	11	48.00	1,711	19,831	8.63	76	22.51
	5	981	13,601	7.21	59	16.63	464	2,784	16.67	9	51.56	1,445	16,385	8.82	68	21.25
	6	1,432	19,239	7.44	85	16.85	1,429	9,026	15.83	28	51.04	2,861	28,265	10.12	113	25.32
	7	4,709	61,593	7.60	196	24.03	7,618	57,030	13.36	137	55.61	12,327	118,983	10.36	333	37.02
		11,805	157,431	7.50	624	18.92	11,610	81,197	14.30	219	53.01	23,415	223,415	9.81	843	27.78
2	1	1,452	10,969	13.24	65	22.34	3,068	9,430	32.53	52	59.00	4,520	20,399	22.16	117	38.63
	2	958	7,422	12.91	31	30.90	3,325	14,648	22.70	53	62.74	4,283	22.070	19.41	84	50.99
	3	1,084	9,290	11.67	33	32.85	3,610	18,690	19.32	54	66.85	4,694	27,980	16.78	87	53.95
	4	500	4,965	10.07	15	33.33	3,004	19,046	15.77	44	68.27	3,504	24,011	14.59	59	59.39
	5	313	3,034	10.32	8	39.13	1,686	12,384	13.61	26	64.85	1,999	15,418	12.97	34	58.79
	6	177	3,737	4.74	6	29.50	4,343	32,617	13.32	52	83.52	4,520	36,354	12.43	58	77.93
	7	543	8,236	6.59	15	36.20	10,456	100,457	10.41	96	108.92	10,999	108,693	10.12	111	99.09
		5,027	47,653	10.55	173	29.06	29,492	207,272	14.23	377	78.23	34,519	254,925	13.54	550	62.76
3	1	310	3,124	9.92	15	20.67	151	678	22.27	3	50.33	461	3,802	12.13	18	25.61
	2	77	1,399	5.50	6	12.83	329	2,073	15.87	6	54.83	406	3,472	11.69	12	33.83
	3	87	2,122	4.10	6	14.50	105	1,173	8.95	2	52.50	192	3,295	5.83	8	24.00
	4	28	2,046	1.37	6	4.67	225	2,500	9.00	4	56.25	253	4,546	5.57	10	25.30
	5	0	0		0		50	1,082	4.62	1	50.00	50	1,082	4.62	1	50.00
	6	0	0		0		45	1,140	3.95	1	45.00	45	1,140	3.95	1	45.00
	7	103	1,891	5.45	3	34.33	144	1,729	8.33	2	72.00	247	3,620	6.82	5	49.40
		605	10,582	5.72	36	16.81	1,049	10,375	10.11	19	55.21	1,654	20,957	7.89	55	30.07
4	1	100	694	14.62	5	20.00	0	0	----	0	-----	100	684	14.62	5	20.00
	2	122	1,213	10.06	7	17.43	176	685	25.69	4	44.00	298	1,898	15.70	11	27.09
	3	120	1,306	9.19	6	20.00	532	1,851	28.74	7	76.00	652	3,157	20.65	13	50.15
	4	202	1,960	10.31	7	28.86	334	2,312	14.45	6	55.67	536	4,272	12.55	13	41.23
	5	0	374	0	1	0	203	1,719	11.81	4	50.75	203	2,093	9.70	5	40.60
	6	28	517	5.42	1	28.00	208	1,904	10.92	3	69.33	236	2,421	9.75	4	59.00
	7	52	406	12.81	1	52.00	533	7,503	7.37	8	69.13	605	7,909	7.65	9	67.22
		624	6,460	9.66	28	22.28	2,006	15,974	12.56	32	62.69	2,630	22,434	11.72	60	43.83
5	1	310	4,044	7.67	13	23.85	646	3,596	17.96	12	53.83	956	7,640	12.51	25	38.24
	2	24	531	4.52	1	24.00	428	3,291	13.01	7	61.14	452	3,822	11.83	8	56.50
	3	0	0	----	0	-----	0	0	-----	0	-----	---	-----	-----	--	-----
	4	32	774	4.13	1	32.00	0	0	-----	0	-----	32	744	4.13	1	32.00
	5	0	0	----	0	-----	0	0	-----	0	-----	---	-----	-----	--	-----
	6	0	0	----	0	-----	0	0	-----	0	-----	---	-----	-----	--	-----
	7	0	0	----	0	-----	0	0	-----	0	-----	---	-----	-----	--	-----
		366	5,349	6.84	15	22.40	1,074	6,887	15.59	19	56.58	1,440	12,236	11.77	34	42.35
Grand Total		18,427	227,475	8.10	876	21.04	45,231	321,705	14.06	666	67.91	63,658	549,180	11.59	1,542	41.28

TABLE 5.3
Formal Seating in Media Center by Size with Detail by Span

		SCHOOLS NOT MEETING STANDARDS					SCHOOLS MEETING STANDARDS					TOTALS				
SIZE CODE	SPAN CODE	SEATS	STUDENTS	% of STUDENTS	SCHOOLS	AVERAGE SEATS PER SCHOOL	SEATS	STUDENTS	% of STUDENTS	SCHOOLS	AVERAGE SEATS PER SCHOOL	SEATS	STUDENTS	% of STUDENTS	SCHOOLS	AVERAGE SEATS PER SCHOOL
1	1	1,109	12,300	9.02	77	14.40	434	1,359	31.94	10	43.40	1,543	13,659	11.30	87	17.74
	2	1,452	10,969	13.24	65	22.34	3,068	9,430	32.53	52	59.00	4,520	20,399	22.16	117	38.63
	3	310	3,124	9.92	15	20.67	151	678	22.27	3	50.33	461	3,802	12.13	18	25.61
	4	100	684	14.62	5	20.00	0	0	-----	0	-----	100	684	14.62	5	20.00
	5	310	4,044	7.67	13	23.85	646	3,596	17.96	12	53.83	956	7,640	12.51	25	38.24
		3,281	31,121	10.54	175	18.75	4,299	15,063	28.54	77	55.83	7,580	46,184	16.41	252	30.08
2	1	1,227	15,346	8.00	71	17.28	615	3,763	16.34	13	47.31	1,842	19,109	9.64	84	21.93
	2	958	7,422	12.91	31	30.90	3,325	14,648	22.70	53	62.74	4,283	22,070	19.41	84	50.99
	3	77	1,399	5.50	6	12.83	329	2,073	15.87	6	54.83	406	3,472	11.69	12	33.83
	4	122	1,213	10.06	7	17.43	176	685	25.69	4	44.00	298	1,898	15.70	11	27.09
	5	24	531	4.52	1	24.00	428	3,291	13.01	7	61.14	452	3,822	11.83	8	56.50
		2,408	25,911	9.29	116	20.76	4,873	24,460	19.92	83	58.71	7,281	50,371	14.45	199	36.59
3	1	1,164	18,886	6.16	71	16.39	522	3,410	14.87	11	47.45	1,686	22,396	7.53	82	20.56
	2	1,084	9,290	11.67	33	32.85	3,610	18,690	19.32	54	66.85	4,694	27,980	16.78	87	53.95
	3	87	2,122	4.10	6	14.50	105	1,173	8.95	2	52.50	192	3,295	5.83	8	24.00
	4	120	1,306	9.19	6	20.00	532	1,851	28.74	7	76.00	652	3,157	20.65	13	50.15
	5	0	0	-----	0	-----	0	0	-----	0	-----	-----	------	-----	--	-----
		2,455	31,604	7.77	116	21.16	4,769	25,224	18.91	74	64.45	7,224	56,828	12.71	190	38.02
4	1	1,183	16,106	7.35	65	18.20	528	3,725	14.17	11	48.00	1,711	19,831	8.63	76	22.51
	2	500	4,965	10.07	15	33.33	3,004	19,046	15.77	44	68.27	3,504	24,011	14.59	59	59.39
	3	28	2,046	1.37	6	4.67	225	2,500	9.00	4	56.25	253	4,546	5.57	10	25.30
	4	202	1,960	10.31	7	28.86	334	2,312	14.45	6	55.67	536	4,272	12.55	13	41.23
	5	32	774	4.13	1	32.00	0	0	-----	0	-----	32	774	4.13	1	32.00
		1,945	25,851	7.52	94	20.69	4,091	27,583	14.83	65	62.94	6,036	53,434	12.30	159	37.96
5	1	981	13,601	7.21	59	16.63	464	2,784	16.67	9	51.56	1,445	16,385	8.82	68	21.25
	2	313	3,034	10.32	8	39.13	1,686	12,384	13.61	26	64.85	1,999	15,418	12.97	34	58.79
	3	0	0	-----	0	-----	50	1,082	4.62	1	50.00	50	1,082	4.62	1	50.00
	4	0	374	-----	1	-----	203	1,719	11.81	4	50.75	203	2,093	9.70	5	40.60
	5	0	0	-----	0	-----	0	0	-----	0	-----	-----	------	-----	--	-----
		1,294	17,009	7.61	68	19.03	2,403	17,969	13.37	40	60.08	3,697	34,978	10.57	108	34.23

TABLE 5.3 con't.

		SCHOOLS NOT MEETING STANDARDS					SCHOOLS MEETING STANDARDS					TOTALS				
SIZE CODE	SPAN CODE	SEATS	STUDENTS	% of STUDENTS	SCHOOLS	AVERAGE SEATS PER SCHOOL	SEATS	STUDENTS	% of STUDENTS	SCHOOLS	AVERAGE SEATS PER SCHOOL	SEATS	STUDENTS	% of STUDENTS	SCHOOLS	AVERAGE SEATS PER SCHOOL
6	1	1,432	19,239	7.44	85	16.85	1,429	9,026	15.83	28	51.04	2,861	28,265	10.12	113	25.32
	2	177	3,737	4.74	6	29.50	4,343	32,617	13.32	52	83.52	4,520	36,354	12.43	58	77.93
	3	0	0	----	0	-----	45	1,140	3.95		45.00	45	1,140	3.95	1	45.00
	4	28	517	5.42	1	28.00	208	1,904	10.92	3	69.33	236	2,421	9.75	4	59.00
	5	0	0	----	0	-----	0	0	-----	--	-----	-----	------	-----	---	-----
		1,637	23,493	6.97	92	17.79	6,025	44,687	13.48	84	71.73	7,662	68,180	11.24	176	43.53
7	1	4,709	61,953	7.60	196	24.03	7,618	57,030	13.36	137	44.61	12,327	118,983	10.36	333	37.02
	2	543	8,236	6.59	15	36.20	10,456	100,457	10.41	96	108.92	10,999	108,693	10.12	111	99.09
	3	103	1,891	5.45	3	34.33	144	1,729	8.33	2	72.00	247	3,620	6.82	5	49.40
	4	52	406	12.81	1	52.00	553	7,503	7.37	8	69.13	605	7,909	7.65	9	67.22
	5	0	0	-----	0	-----	0	0	-----	0	-----	-----	------	-----	--	-----
		5,407	72,486	7.46	215	25.15	18,771	166,719	11.26	243	72.25	24,178	239,205	10.11	458	52.79
Grand Total		18,427	227,475	8.10	876	21.04	45,231	321,705	14.06	666	67.91	63.658	549,180	11.59	1,542	41.28

TABLE 5.4
Comparison of Average Seating for All Schools with Schools With Seating by Span

SPAN	SCHOOLS REPORTING	SCHOOLS WITH NO SEATS	AVERAGE SEATS FOR ALL SCHOOLS	AVERAGE SEATS FOR SCHOOLS WITH SEATS
1	843	125	27.78	32.82
2	550	8	62.76	63.67
3	55	12	30.07	38.47
4	60	2	43.83	45.34
5	34	1	42.35	45.82
TOTAL	1,542	148	40.71	45.03

TABLE 5.5
Range and Percentiles for Formal Seating in Media Center for All Schools

Maximum 250 Minimum 0 Average 41

AMT.	FREQ.	AMT.	FREQ.	AMT.	FREQ.	AMT.	FREQ.
250 -	1	110 -	1	69 -	3	35 -	28
227 -	1	108 -	1	68 -	9	34 -	22
215 -	4	106 -	1	67 -	3	33 -	8
206 -	1	105 -	1	66 -	9	32 -	40
190 -	1	103 -	2	65 -	24	31 -	4
187 -	1	102 -	2	64 -	12	30 -	110
180 -	2	100 -	18	63 -	5	29 -	5
177 -	1	99 -	1	62 -	8	28 -	31
176 -	2	98 -	4	61 -	3	27 -	12
175 -	1	97 -	2	60 -	3	26 -	16
163 -	1	96 -	3	59 -	5	25 -	63
160 -	1	95 -	3	58 -	10	24 -	49
158 -	1	94 -	1	57 -	4	23 -	3
153 -	1	92 -	1	56 -	13	22 -	12
150 -	5	90 -	10	55 -	20	21 -	6
145 -	3	89 -	1	54 -	7	20 -	41
144 -	2	88 -	2	53 -	6	19 -	2
141 -	1	87 -	2	52 -	20	18 -	16
140 -	4	86 -	4	51 -	7	17 -	7
138 -	1	85 -	9	50 -	65	16 -	18
137 -	1	84 -	5	49 -	5	15 -	23
132 -	1	83 -	2	48 -	20	14 -	8
130 -	2	82 -	3	47 -	7	13 -	3
127 -	1	81 -	2	46 -	8	12 -	39
126 -	1	80 -	23	45 -	19	11 -	3
125 -	3	79 -	2	44 -	14	10 -	25
124 -	2	78 -	6	43 -	5	9 -	5
123 -	1	77 -	1	42 -	19	8 -	14
122 -	1	76 -	5	41 -	3	7 -	1
120 -	3	75 -	11	40 -	78	6 -	16
119 -	2	74 -	6	39 -	3	5 -	4
118 -	1	73 -	1	38 -	23	4 -	6
117 -	2	72 -	14	37 -	6	2 -	5
115 -	3	70 -	12	36 -	36	0 -	148
112 -	1						

PERCENTILE RANGE

	WITH 0	WITHOUT 0
90th	80	82
75th	55	59
50th	35	38
25th	21	25
10th	4	15

TABLE 5.6
Range and Percentiles for Formal Seating in Media Center for K-6 Schools

No.	Freq.	No.	Freq.	No.	Freq.	No.	Freq.
137 -	1	64 -	1	41 -	1	21 -	5
120 -	1	63 -	2	40 -	44	20 -	31
100 -	2	62 -	4	38 -	16	18 -	13
95 -	1	60 -	20	37 -	2	17 -	6
90 -	2	58 -	2	36 -	23	16 -	15
86 -	2	57 -	3	35 -	16	15 -	18
85 -	1	56 -	3	34 -	18	14 -	4
84 -	1	55 -	6	33 -	6	13 -	2
82 -	2	53 -	1	32 -	27	12 -	29
80 -	5	52 -	5	31 -	3	11 -	2
78 -	1	51 -	2	30 -	87	10 -	23
77 -	1	50 -	30	29 -	5	9 -	1
76 -	1	49 -	2	28 -	20	8 -	9
75 -	7	48 -	9	27 -	8	7 -	1
73 -	1	46 -	5	26 -	14	6 -	12
70 -	3	45 -	6	25 -	46	5 -	3
69 -	1	44 -	4	24 -	36	4 -	5
67 -	1	43 -	4	23 -	1	2 -	3
66 -	2	42 -	6	22 -	7	0 -	125
65 -	5						

PERCENTILES

	WITH 0 (834)	MINUS 0 (718)
90th	52	56
75th	38	40
50th	27	30
25th	12	21
10th	0	12

TABLE 5.7
Range and Percentiles for Informal Seating in Media Center for 7-12 Schools

No.	Freq.	No.	Freq.	No.	Freq.	No.	Freq.
250 -	1	112 -	1	70 -	8	38 -	6
227 -	1	110 -	1	69 -	2	37 -	2
215 -	4	108 -	1	68 -	8	36 -	11
206 -	1	106 -	1	67 -	2	35 -	8
190 -	1	105 -	1	66 -	7	34 -	4
187 -	1	103 -	2	65 -	14	33 -	2
180 -	2	102 -	2	64 -	11	32 -	9
177 -	1	100 -	15	63 -	1	31 -	1
176 -	2	99 -	1	62 -	4	30 -	16
175 -	1	98 -	4	61 -	3	28 -	7
163 -	1	97 -	2	60 -	24	27 -	4
160 -	1	96 -	2	59 -	4	26 -	1
158 -	1	95 -	2	58 -	6	25 -	12
150 -	5	94 -	1	57 -	1	24 -	8
145 -	3	92 -	2	56 -	9	23 -	2
144 -	2	90 -	8	55 -	10	22 -	4
141 -	1	88 -	2	54 -	6	20 -	5
140 -	3	87 -	2	53 -	3	18 -	1
138 -	1	86 -	2	52 -	12	17 -	1
132 -	1	85 -	8	51 -	5	16 -	1
130 -	2	84 -	4	50 -	25	15 -	3
127 -	1	83 -	2	49 -	3	14 -	2
126 -	1	82 -	1	48 -	10	13 -	1
125 -	3	81 -	2	47 -	7	12 -	6
124 -	2	80 -	15	46 -	3	11 -	1
123 -	1	79 -	2	45 -	7	9 -	3
122 -	1	78 -	5	44 -	7	8 -	4
120 -	2	76 -	2	43 -	1	6 -	3
119 -	2	75 -	4	42 -	11	5 -	1
118 -	1	74 -	5	41 -	2	4 -	1
117 -	1	72 -	13	40 -	24	2 -	2
115 -	3			39 -	1	0 -	8

Percentile Ranking

	WITH 0 (559)	WITHOUT 0 (551)
90th	110	112
75th	79	80
50th	55	56
25th	38	40
10th	24	25

TABLE 5.8
Range and Percentiles for Formal Seating in Media Center for K-8 Schools

No.	Freq.	No.	Freq.
100 -	1	32 -	1
96 -	1	30 -	4
80 -	1	28 -	1
65 -	1	25 -	2
60 -	1	24 -	2
59 -	1	22 -	1
54 -	1	20 -	2
53 -	1	15 -	2
50 -	2	12 -	1
45 -	2	10 -	2
44 -	2	8 -	1
42 -	2	0 -	12
40 -	5		
39 -	2		
37 -	1		

PERCENTILE RANKING

	WITH 0 (55)	WITHOUT 0 (43)
90th	59	65
75th	44	45
50th	30	39
25th	10	25
10th	0	15

TABLE 5.9
Range and Percentiles for Formal Seating in Media Center for Middle Schools

No.	Freq.	No.	Freq.
153 -	1	36 -	2
140 -	1	35 -	3
117 -	1	32 -	2
89 -	1	30 -	2
80 -	1	28 -	2
76 -	2	26 -	1
74 -	1	25 -	1
70 -	1	24 -	2
65 -	2	21 -	1
63 -	1	20 -	1
60 -	2	19 -	2
56 -	1	18 -	2
55 -	1	14 -	2
52 -	3	12 -	2
50 -	4	9 -	1
45 -	4	6 -	1
40 -	3	0 -	2
37 -	1		

PERCENTILE RANKING

	WITH 0 (60)	WITHOUT 0 (58)
90th	76	76
75th	56	56
50th	40	40
25th	24	25
10th	14	18

TABLE 5.10

Range and Percentiles for Formal Seating in Media Center for K-12 Schools

No.	Freq.	No.	Freq.
80 -	1	38 -	1
72 -	2	35 -	1
68 -	1	32 -	1
65 -	2	30 -	1
63 -	1	28 -	1
58 -	2	25 -	2
55 -	3	24 -	1
53 -	1	20 -	2
50 -	4	16 -	2
48 -	1	12 -	1
44 -	1	0 -	1
40 -	2		

PERCENTILE RANKING

	WITH 0 (34)	WITHOUT 0 (33)
90th	68	68
75th	55	58
50th	48	48
25th	25	28
10th	16	20

TABLE 5.11
All Seating Available (Formal and Informal) by Span

SPAN	SCHOOLS REPORTING	SCHOOLS WITH NO SEATING	AVERAGE SEATING ALL SCHOOLS	AVERAGE SEATING OF SCHOOLS WITH SEATS	INFORMAL SEATING (ALL SEATING MINUS FORMAL SEATING)
1	843	116	48.25	55.96	23.14
2	550	5	78.45	79.17	15.50
3	55	11	46.45	58.07	19.60
4	60	1	64.15	65.24	19.90
5	34	1	61.97	63.85	18.03
TOTAL	1,542	134	59.89	65.89	20.56

TABLE 5.12
Range and Percentiles for All Seating in Media Centers for All Schools

550 - 1
325 - 1
300 - 1
267 - 2
247 - 2
244 - 1
240 - 1
230 - 2
227 - 1
220 - 1
216 - 1
215 - 1
212 - 2
207 - 1
201 - 1
200 - 5
198 - 1
195 - 1
193 - 2
188 - 1
180 - 5
177 - 1
175 - 2
174 - 1
170 - 4
165 - 2
161 - 1
160 - 2
158 - 1
156 - 2
155 - 2
150 - 7
147 - 1
146 - 1
145 - 5
144 - 2
143 - 2
142 - 1
141 - 1
140 - 5
139 - 2
138 - 1
136 - 1
135 - 5
134 - 2
133 - 3
132 - 1
131 - 1
130 - 5
129 - 2
127 - 2
126 - 1
125 - 10
124 - 1
123 - 3
120 - 10
118 - 1
117 - 2
115 - 11
113 - 2
112 - 2
111 - 3
110 - 5
109 - 1
108 - 6
106 - 2
105 - 4
104 - 6
103 - 2
102 - 5
101 - 3
100 - 52
99 - 3
98 - 2
97 - 3
96 - 5
95 - 6
94 - 5
93 - 2
92 - 7
91 - 1
90 - 25
88 - 2
87 - 7
86 - 5
85 - 17
84 - 11
83 - 4
82 - 8
81 - 2
80 - 37
79 - 1
78 - 13
77 - 2
76 - 3
75 - 34
74 - 11
73 - 9
72 - 11
71 - 4
70 - 41
69 - 6
68 - 11
67 - 2
66 - 12
65 - 33
64 - 10
63 - 10
62 - 10
61 - 7
60 - 69
59 - 4
58 - 9
57 - 10
56 - 7
55 - 25
54 - 11
53 - 10
52 - 13
51 - 5
50 - 78
49 - 4
48 - 22
47 - 12
46 - 23
45 - 32
44 - 15
43 - 10
42 - 18
41 - 8
40 - 82
39 - 9
38 - 15
37 - 19
36 - 12
35 - 37
34 - 16
33 - 9
32 - 17
31 - 9
30 - 53
29 - 3
28 - 4
27 - 7
26 - 6
25 - 18
24 - 8
23 - 2
22 - 4
21 - 3
20 - 16
19 - 2
18 - 8
17 - 3
16 - 8
15 - 5
14 - 6
13 - 3
12 - 6
11 - 3
10 - 6
9 - 2
6 - 3
5 - 2
2 - 1
0 - 134

PERCENTILES

	WITH 0 (1,542)	WITHOUT 0 (1,408)
90th	109	115
75th	80	80
50th (Median)	52	57
25th	36	40
10th	12	30

TABLE 5.13
Range and Percentiles for All Seating in Media Center for K-6 Schools

NO.	FREQ.	NO.	FREQ.	NO.	FREQ.	NO.	FREQ.
550 -	1	105 -	1	65 -	13	36 -	10
250 -	1	104 -	1	64 -	7	35 -	25
245 -	1	102 -	2	63 -	5	34 -	11
244 -	1	100 -	21	62 -	4	33 -	6
230 -	1	99 -	1	61 -	3	32 -	14
212 -	2	96 -	1	60 -	38	31 -	7
207 -	1	95 -	4	59 -	1	30 -	41
198 -	1	94 -	2	58 -	3	29 -	2
193 -	1	92 -	3	57 -	4	28 -	2
165 -	1	90 -	10	56 -	2	27 -	6
160 -	1	87 -	2	55 -	9	26 -	4
156 -	1	86 -	2	54 -	8	25 -	11
145 -	1	85 -	6	53 -	5	24 -	4
143 -	1	84 -	5	52 -	6	22 -	4
141 -	1	83 -	2	51 -	4	21 -	2
140 -	2	82 -	3	50 -	56	20 -	12
136 -	1	81 -	1	49 -	2	19 -	1
135 -	2	80 -	18	48 -	13	18 -	5
129 -	1	78 -	5	47 -	8	17 -	3
127 -	1	76 -	1	46 -	11	16 -	6
125 -	4	75 -	13	45 -	15	15 -	4
120 -	2	74 -	3	44 -	10	14 -	2
115 -	5	73 -	5	43 -	9	13 -	1
113 -	1	72 -	4	42 -	12	12 -	4
112 -	1	71 -	2	41 -	6	11 -	1
111 -	1	70 -	19	40 -	56	10 -	5
110 -	2	69 -	1	39 -	8	9 -	2
108 -	1	68 -	5	38 -	9	5 -	1
106 -	1	66 -	5	37 -	14	0 -	116

PERCENTILES

	WITH 0 (842)	WITHOUT 0 (726)
90th	90	94
75th	63	68
50th	43	48
25th	30	35
10th	0	27

TABLE 5.14
Range and Percentiles for All Seating in Media Center for 7-12 Schools

NO.	FREQ.	NO.	FREQ.	NO.	FREQ.	NO.	FREQ.
325 -	1	134 -	2	86 -	3	48 -	7
300 -	1	133 -	3	85 -	9	47 -	2
267 -	1	132 -	1	84 -	6	46 -	11
245 -	1	131 -	1	83 -	2	45 -	12
240 -	1	130 -	4	82 -	5	44 -	2
230 -	1	129 -	1	81 -	1	43 -	1
227 -	1	127 -	1	80 -	12	42 -	4
220 -	1	125 -	6	78 -	6	41 -	2
216 -	1	124 -	1	77 -	1	40 -	18
215 -	1	123 -	3	76 -	2	39 -	1
201 -	1	120 -	6	75 -	18	38 -	4
200 -	5	117 -	2	74 -	6	37 -	3
195 -	1	115 -	5	73 -	4	36 -	1
193 -	1	113 -	1	72 -	6	35 -	9
188 -	1	112 -	1	71 -	1	34 -	4
180 -	5	111 -	2	70 -	16	33 -	3
177 -	1	110 -	3	69 -	2	32 -	1
175 -	2	109 -	1	68 -	6	30 -	7
174 -	1	108 -	4	67 -	2	28 -	2
170 -	3	105 -	2	66 -	7	26 -	2
165 -	1	104 -	3	65 -	15	25 -	4
161 -	1	103 -	2	64 -	2	24 -	3
160 -	1	102 -	3	63 -	3	23 -	1
158 -	1	101 -	2	62 -	5	20 -	3
156 -	1	100 -	26	61 -	4	19 -	1
155 -	1	99 -	2	60 -	26	18 -	3
150 -	7	98 -	2	59 -	2	16 -	2
147 -	1	97 -	3	58 -	4	15 -	1
146 -	1	96 -	4	57 -	6	14 -	3
145 -	4	95 -	2	56 -	5	13 -	1
144 -	2	94 -	3	55 -	12	12 -	1
143 -	1	93 -	2	54 -	3	11 -	1
142 -	1	92 -	4	53 -	3	6 -	3
140 -	2	91 -	1	52 -	5	5 -	1
139 -	2	90 -	14	51 -	1	2 -	1
138 -	1	88 -	1	50 -	18	0 -	5
135 -	3	87 -	5	49 -	2		

Percentile Ranking

	WITH 0 (550)	WITHOUT 0 (545)
90th	140	140
75th	100	100
50th	70	71
25th	50	50
10th	35	35

TABLE 5.15
Range and Percentiles for All Seating in Media Center for K-8 Schools

No.	Freq.	No.	Freq.
140	1	55	1
126	1	50	1
120	1	45	3
115	1	42	1
88	1	40	3
80	3	37	2
79	1	35	1
78	1	34	1
74	1	32	2
70	2	30	3
69	3	27	1
65	2	25	1
63	1	13	1
62	1	10	1
60	1	0	11
59	1		

PERCENTILE RANKING

	WITH 0 (55)	WITHOUT 0 (44)
90th	80	115
75th	69	74
50th	42	59
25th	27	37
10th	0	30

TABLE 5.16
Range and Percentiles for All Seating in Media Center for Middle Schools

No.	Freq.	No.	Freq.
267 -	1	48 -	2
170 -	1	47 -	2
155 -	1	46 -	1
120 -	1	45 -	2
106 -	1	44 -	2
105 -	1	42 -	1
104 -	2	40 -	2
101 -	1	38 -	1
100 -	3	36 -	1
90 -	1	35 -	1
85 -	1	31 -	1
80 -	3	30 -	1
75 -	2	29 -	1
72 -	1	23 -	1
71 -	1	21 -	1
60 -	4	20 -	1
58 -	1	14 -	1
55 -	3	12 -	1
53 -	2	11 -	1
52 -	2	0 -	1
50 -	2		

PERCENTILE RANKING

	WITH 0 (60)	WITHOUT 0 (59)
90th	105	105
75th	80	80
50th	53	53
25th	42	44
10th	23	29

TABLE 5.17
Range and Percentiles for All Seating in Media Center for K-12 Schools

No.	Freq.	No.	Freq.
130	1	63	1
118	1	58	1
108	1	50	1
100	2	44	1
85	1	40	3
80	1	38	1
78	1	35	1
77	1	31	1
75	1	30	1
74	1	25	2
70	4	24	1
65	3	0	1
64	1		

PERCENTILE RANKING

	WITH 0 (34)	WITHOUT 0 (33)
90th	108	108
75th	77	78
50th	65	65
25th	40	40
10th	25	30

TABLE 6

Professional Staff (Regardless of Endorsement) for Schools Meeting and Not Meeting Phase I, Plan for Progress in the Media Center Recommendations

SPAN

SPAN	NO. OF SCHOOLS	SCHOOLS	STUDENTS	FTE PROF. STAFF	STUDENT/PROF. RATIO	AVERAGE PROF. PER SCHOOL	% OF SCHOOLS
NOT MEETING STANDARDS							
1	843	703	188,225	136.8	1-1,376	.195	83.4
2	550	302	159,670	239.8	1- 666	.793	54.9
3	55	47	17,456	15.9	1-1,098	.338	85.5
4	60	37	15,714	19.1	1- 823	.516	61.7
5	34	17	6,127	10.1	1- 607	.594	50.0
TOTAL	1,542	1,106	387,192	421.7	1- 918	.38	71.7
MEETING STANDARDS							
1	843	140	50,403	152.5	1- 331	1.089	16.6
2	550	248	95,255	287.5	1- 331	1.159	45.1
3	55	8	3,501	10.0	1- 350	1.25	14.5
4	60	23	6,720	23.3	1- 288	1.013	38.3
5	34	17	6,109	17.0	1- 359	1.00	50.0
TOTAL	1,542	436	161,988	490.3	1- 330	1.125	28.3
TOTAL - MEETING & NOT MEETING STANDARDS							
	1,542	1,542	549,180	912.0	1- 602	.591	

TABLE 6.1
Professional Staff Regardless of Endorsement for Schools Not Meeting Phase I by Span with Detail by Size

SPAN	SIZE	SCHOOLS	STUDENTS	FTE PROF. STAFF	STUDENT/MEDIA SPEC. RATIO	AVE. PROF. BY SCHOOL
1	1	77	12,207	13.6	1- 898	.177
	2	69	14,561	10.1	1-1,442	.146
	3	66	16,741	9.2	1-1,820	.139
	4	74	19,124	13.6	1-1,406	.184
	5	67	15,994	12.2	1-1,311	.182
	6	107	25,719	16.9	1-1,522	.158
	7	243	83,879	61.2	1-1,371	.252
		703	188,225	136.8	1-1,376	.195
2	1	68	11,452	30.8	1- 372	.453
	2	32	7,454	13.9	1- 536	.434
	3	29	8,228	15.5	1- 531	.535
	4	21	9,578	15.6	1- 550	.743
	5	15	7,412	11.0	1- 674	.733
	6	53	34,273	54.8	1- 625	1.034
	7	84	81,273	98.2	1- 828	1.169
		302	159,670	239.8	1- 666	.793
3	1	16	3,215	4.4	1- 731	.28
	2	9	2,432	.8	1-3,040	.09
	3	6	2,331	1.5	1-1,554	.25
	4	10	4,546	3.2	1-1,421	.32
	5	1	1,082	1.3	1- 832	1.30
	6	1	1,140	1.0	1-1,140	1.00
	7	4	2,710	3.7	1- 732	.93
		47	17,456	15.9	1-1,098	.338
4	1	3	406	.8	1- 508	.267
	2	8	1,369	1.7	1- 805	.213
	3	7	1,613	2.6	1- 620	.385
	4	6	1,915	2.5	1- 766	.417
	5	3	1,334	1.5	1- 889	.500
	6	4	2,421	4.0	1- 605	1.000
	7	6	6,656	6.0	1-1,109	1.000
		37	15,714	19.1	1- 823	.516
5	1	11	2,834	4.8	1- 590	.436
	2	5	2,519	4.5	1- 540	.900
	3					
	4	1	774	.8	1- 774	.800
	5					
	6					
	7					
		17	6,127	10.1	1- 607	.594
GRAND TOTAL		1,106	387,192	421.7	1- 918	.38

TABLE 6.2
Professional Staff Regardless of Endorsement for Schools Meeting Phase I by Span with Detail by Size

SPAN	SIZE	SCHOOLS	STUDENTS	FTE PROF.	RATIO	AVE. FOR SCHOOL
1	1	10	1,452	10.8	1-134	1.080
	2	15	4,548	15.1	1-301	1.007
	3	16	5,655	17.0	1-333	1.063
	4	2	707	2.0	1-354	1.000
	5	1	391	1.0	1-391	1.000
	6	6	2,546	6.0	1-424	1.000
	7	90	35,104	100.6	1-349	1.118
		140	50,403	152.5	1-331	1.089
2	1	49	8,947	50.2	1-178	1.025
	2	52	14,616	57.6	1-254	1.108
	3	58	19,752	62.5	1-316	1.078
	4	38	14,433	42.4	1-340	1.116
	5	19	8,006	19.3	1-415	1.016
	6	5	2,081	5.0	1-416	1.000
	7	27	27,420	50.5	1-543	1.870
		248	95,255	287.5	1-331	1.159
3	1	2	587	2.0	1-294	1.000
	2	3	1,040	3.0	1-347	1.000
	3	2	914	3.0	1-321	1.500
	4					
	5					
	6					
	7	1	910	2.0	1-455	2.00
		8	3,501	10.0	1-350	1.250
4	1	2	278	2.0	1-139	1.000
	2	3	529	3.0	1-176	1.000
	3	6	1,544	6.1	1-253	1.017
	4	7	2,357	7.2	1-327	1.029
	5	2	759	2.0	1-380	1.000
	6					
	7	3	1,253	3.0	1-418	1.000
		23	6,270	23.3	1-288	1.013
5	1	14	4,806	14.0	1-343	1.000
	2	3	1,303	3.0	1-434	1.00
	3					
	4					
	5					
	5					
	7					
		17	6,019	17.0	1-359	1.000
	TOTAL	436	161,988	490.3	1-330	1.125
EETING AND OT MEETING RAND TOTAL		1,542	549,180	912.0	1-602	.591

TABLE 6.3
Professional Staff by Endorsement by Span

SPAN	MEET STANDARDS?	NO. OF SCHOOLS	ENROLLMENT	LIB. SCI. MAJOR	LIB. SCI. MINOR	MAJORS+ MINORS	STUDENT/L.S. PROF./RATIO	AVE. L.S. PROF. PER SCHOOL	AV MAJ.	OTHER PROF.	TOTAL PROF.
1	NO	703	188,225	87.6	36.7	124.8	1-1,504	.178	6.2	5.8	136.8
	YES	140	50,403	98.0	29.1	127.1	1- 397	.908	5.0	20.4	152.5
	TOTAL	843	238,628	185.6	65.8	251.9	1- 947	.299	11.2	26.2	289.3
2	NO	302	159,670	183.1	31.6	214.7	1- 744	.711	17.4	7.7	239.8
	YES	248	95,255	196.7	61.7	258.4	1- 369	1.042	18.4	10.7	287.5
	TOTAL	550	254,925	379.8	93.3	473.1	1- 539	.860	35.4	18.4	527.3
3	NO	47	17,456	12.7	2.8	15.5	1-1,126	.330	0.3	0.1	15.9
	YES	8	3,501	8.0	2.0	10.0	1- 350	1.250	0.0	0.0	10.0
	TOTAL	55	20,957	20.7	4.8	25.5	1- 822	.464	0.3	0.1	25.9
4	NO	37	15,714	13.5	4.5	18.0	1- 873	.487	1.0	0.1	19.1
	YES	23	6,720	15.6	5.0	20.6	1- 326	.896	0.7	2.0	23.3
	TOTAL	60	22,434	29.1	9.5	38.6	1- 581	.643	1.7	2.1	42.4
5	NO	17	6,127	5.6	3.5	9.1	1- 673	.535	1.0	0.0	10.1
	YES	17	6,109	14.0	1.0	15.0	1- 407	.882	2.0	0.0	17.0
	TOTAL	34	12,236	19.6	4.5	24.1	1- 508	.709	3.0	0.0	27.1
GRAND TOTAL		1,542	549,180	634.8	178.4	813.2	1- 675	.527	52.0	46.8	912.0

SPAN	MEET STANDARDS?	SCHOOLS	ENROLLMENT	TOTAL STUDENT/ PROF. RATIO	AVE. PROF. PER SCHOOL	% OF SCHOOLS IN SPAN	SCHOOLS WITH PROF. STAFF	ADJUSTED AVERAGE PROF. PER SCHOOL	ADJUSTED PERCENT OF SCHOOLS IN SPAN
1	NO	703	188,225	1-1,376	.195	83.4	377	.363	45.0
	YES	140	50,403	1- 331	1.089	16.6	140	1.089	16.6
	TOTAL	843	238,628	1- 830	.340	100.0	517	.560	61.3
2	NO	302	159,670	1- 666	.793	54.9	289	.830	52.5
	YES	248	95,255	1- 331	1.159	45.1	248	1.159	45.1
	TOTAL	550	254,925	1- 484	.953	100.0	537	.982	97.6
3	NO	47	17,456	1-1,098	.338	85.5	26	.612	47.3
	YES	8	3,501	1- 350	1.250	14.5	8	1.250	14.5
	TOTAL	55	20,957	1- 809	.471	100.0	34	.762	61.8
4	NO	37	15,714	1- 823	.516	61.7	33	.579	55.0
	YES	23	6,720	1- 288	1.013	38.3	23	1.013	38.3
	TOTAL	60	22,434	1- 529	.707	100.0	56	.757	93.3
5	NO	17	6,127	1- 607	.594	50.0	17	.594	50.0
	YES	17	6,109	1- 359	1.000	50.0	17	1.000	50.0
	TOTAL	34	12,236	1- 452	.797	100.0	34	.797	100.0
GRAND TOTAL		1,542	549,180	1- 602	.591	XXX	1,178	.774	XXX

TABLE 6.4
Range of Certificated Staff (Regardless of Endorsement)

	SPAN 1	SPAN 2	SPAN 3	SPAN 4	SPAN 5	TOTAL
4.0		1				1
3.0		7				7
2.5		3				3
2.2		1				1
2.0	11	32	2			45
1.9		1				1
1.7	1	2				3
1.6		1				1
1.5	1	6				7
1.4	1	2				3
1.3	1	7	1			9
1.2	1	5				6
1.1	2	6		3		11
1.0	149	324	14	31	20	538
.9		4		1	1	6
.8	3	9		1	1	14
.7	7	7	2	1	1	18
.6	25	12		1	1	39
.5	65	58	8	3	6	140
.4	41	10		2	1	54
.3	49	15	1	5	1	71
.2	71	14	3	5	2	95
.1	89	10	3	3		105
.0	326	13	21	4		364
TOTAL	843	550	55	60	34	1,542

PERCENTILES

	SPAN 1		SPAN 2		SPAN 3		SPAN 4		SPAN 5	
PERCEN-TILE	WITH 0	WITHOUT 0	WITH	WITH-OUT	WITH	WITH-OUT	WITH	WITH-OUT	WITH	WITH-OUT
90	1.0	1.0	1.4	1.5	1.0	1.3	1.0	1.0	1.0	1.0
75	.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
50	.2	.5	1.0	1.0	.3	.7	1.0	1.0	1.0	1.0
25	0	.2	.7	.8	.0	.5	.3	.4	.5	.5
10	0	.1	.4	.5	.0	.2	.1	.2	.4	.4

TOTAL

WITH 0	WITHOUT 0
1.0	1.0
1.0	1.0
.4	.6
.0	.2
.0	.1

TABLE 6.5
Range of Certificated Staff
(Endorsement 34, Approval 86)

SPAN 1		SPAN 2	SPAN 3	SPAN 4	SPAN 5	TOTAL
No.	Freq.	Freq.	Freq.	Freq.	Freq.	Freq.
2.5		1				1
2.0	1	23	2			26
1.9		1				1
1.7	1					1
1.6		1				1
1.5		1				1
1.3	1					1
1.2		1				1
1.1	1					1
1.0	146	355	15	30	17	563
.9		4		1	1	6
.8	3	9		1	1	14
.7	7	7	2	1	1	18
.6	20	11		1	1	33
.5	60	59	8	4	6	137
.4	38	10		2	1	51
.3	45	14	1	5	1	66
.2	66	13	3	5	2	89
.1	81	8	2	3		94
.0	373	32	22	7	3	437
TOTAL	843	550	55	60	34	1,542

Percentile Chart

WITH 0

PERCENTILE:	90th	75th	50th	25th	10th
SPAN 1	1.0	0.5	0.1	0.0	0.0
SPAN 2	1.0	1.0	1.0	0.6	0.3
SPAN 3	1.0	1.0	0.3	0.0	0.0
SPAN 4	1.0	1.0	1.0	0.3	0.0
SPAN 5	1.0	1.0	1.0	0.5	0.2
TOTAL	1.0	1.0	0.5	0.1	0.0

WITHOUT 0

SPAN 1	1.0	1.0	0.5	0.2	0.1
SPAN 2	1.0	1.0	1.0	0.8	0.5
SPAN 3	1.0	1.0	1.0	0.5	0.2
SPAN 4	1.0	1.0	1.0	0.4	0.2
SPAN 5	1.0	1.0	1.0	0.5	0.4
TOTAL	1.1	1.0	1.0	0.4	0.1

TABLE 7

Schools Providing Both Professional (Regardless of Endorsement) and Clerical/Technical Staff for the Library or Media Center

			PROFESSIONAL STAFF		CLERKS & TECHNICIANS		
SPAN	NO. OF SCHOOLS	% OF SCHOOLS IN SPAN	TOTAL	AVERAGE	TOTAL	AVERAGE	RATIO
1	397	47.09%	220.6	.56	301.2	.76	1-1.37
2	296	53.82	312.4	1.06	322.4	1.09	1-1.03
3	17	30.91	12.0	.71	11.3	.66	1-0.94
4	27	45.00	20.0	.74	30.3	1.12	1-1.52
5	14	41.18	11.0	.79	9.8	.70	1-0.89
	751	48.70	576.0	.77	675.0	.90	1-1.17

TABLE 7.1
Schools Providing Professional Staff with Approval 86 or Endorsement 34 and Clerical/Technical Staff
Span

SPAN	NO. OF SCHOOLS	% OF SCHOOLS IN SPAN	% OF CENTERS	TOTAL PROF. STAFF	AVG. PROF. STAFF	TOTAL CLERKS & TECHNICIANS	AVG. CLERKS & TECHNICIANS	RATIO
1	361	42.82	49.59	189.6	.53	267.7	.74	1-1.41
2	285	51.82	52.58	271.0	.95	306.4	1.08	1-1.13
3	17	30.91	38.64	11.7	.69	11.3	.66	1- .97
4	26	43.33	44.83	18.4	.71	28.3	1.09	1-1.54
5	13	38.24	39.39	10.0	.77	9.6	.74	1- .96
	702	45.53	50.14	500.7	.71	623.3	.89	1-1.25

TABLE 7.2

Schools Providing Professional Staff (Regardless of Endorsement with No Support Staff)

SPAN	NO. OF SCHOOLS	% OF TOT. SCHOOLS	% OF CENTERS	TOT. PROF. STAFF	AVERAGE
1	120	14.39	16.74	68.7	.57
2	241	43.11	43.98	214.9	.89
3	17	30.91	38.64	13.9	.82
4	29	48.33	50.00	22.4	.77
5	20	58.82	60.61	16.1	.81
	427	27.69	30.50	336.0	.79

TABLE 7.3
Schools Providing Unsupervised Clerical or Techinical Staff in the Library or Media Center

						CLERKS & TECHNICIANS	
SPAN	TOTAL SCHOOLS	TOTAL CENTERS	NO.	% OF TOTAL	% OF CENTERS	TOTAL	AVERAGE
1	843	728	190	22.54	26.10	141.1	.74
2	550	542	8	1.45	1.48	7.3	.91
3	55	44	7	12.73	15.91	6.0	.86
4	60	58	3	5.00	5.17	4.1	1.37
5	34	33	0	0.00		0.0	0
	1542	1400	208	13.49	14.86	158.5	.76

TABLE 8
Support Staff for Schools Meeting and Not Meeting Phase I, Plan for Progress in the Media Center Guidelines by Span

NOT MEETING GUIDELINES

SPAN	SCHOOLS IN SPAN	NO. OF SCHOOLS	STUDENTS	FTE CLERICAL	FTE TECHNICAL	CLERICAL+ TECHNICAL	STUDENT/SUPPORT STAFF RATIO	AVERAGE SUPPORT STAFF PER SCHOOL	% OF SCHOOLS
1	843	599	159,255	173.3	3.3	176.6	1- 902	0.295	71.1
2	550	532	243,775	268.1	17.4	285.5	1- 854	0.537	96.7
3	55	50	18,920	11.3	0.5	11.8	1-1,603	0.236	90.9
4	60	55	19,995	22.1	2.2	24.3	1- 823	0.442	91.7
5	34	34	12,236	9.7	0.1	9.8	1-1,249	0.288	100.0
	1,542	1,270	454,181	484.5	23.5	508.0	1- 894	0.400	82.4

MEETING GUIDELINES

1	843	244	79,373	260.1	5.6	265.7	1- 299	1.089	28.9
2	550	18	11,150	37.1	7.1	44.2	1- 252	2.456	3.3
3	55	5	2,037	5.5	0.0	5.5	1- 370	1.100	9.1
4	60	5	2,439	8.1	2.0	10.1	1- 241	2.020	8.3
5	34	0	0	0.0	0.0	0.0	0- 000	0.000	0.0
	1,542	272	94,999	310.8	14.7	325.5	1- 292	1.197	17.6

TOTAL - MEETING AND NOT MEETING GUIDELINES

1	843	843	238,628	433.4	8.9	442.3	1- 540	0.525
2	550	550	254,925	305.2	24.5	329.7	1- 773	0.600
3	55	55	20,957	16.8	0.5	17.3	1-2,111	0.315
4	60	60	22,434	30.2	4.2	34.4	1- 652	1.012
5	34	34	12,236	9.7	0.1	9.8	1-1,249	0.288
	1,542	1,542	549,180	795.3	38.2	833.5	1- 659	0.541

TABLE 8.1
RANGE OF SUPPORT STAFF

SPAN 1		SPAN 2	SPAN 3	SPAN 4	SPAN 5	TOTAL
No.	Freq.	Freq.	Freq.	Freq.	Freq.	Freq.
6.0		1				1
5.1		1				1
4.8		1				1
4.0		2				2
3.6		1				1
3.1		1				1
3.0	1	10		1		12
2.6	1	1				2
2.5	1	4				5
2.3		1				1
2.2		1				1
2.1		1		1		2
2.0	12	22		4		38
1.9		1				1
1.8		2				2
1.7		1				1
1.6	1	1		1		3
1.5	5	10	1	2		18
1.4	1	4				5
1.3	3	6		1	1	11
1.2	7	3				10
1.1	2	3		1		6
1.0	238	108	7	11	6	370
.9	6	2	2			10
.8	33	9	1			43
.7	22	7				29
.6	33	6	3	1		43
.5	97	55	7	4	4	167
.4	30	6	1	1		38
.3	28	8	1			37
.2	47	15	1	1	2	66
.1	19	10		1	1	31
.0	256	246	31	30	20	583
TOTAL	843	550	55	60	34	1,542

PERCENTILE CHART

Including 0 - Schools with and without support staff

PERCENTILE:	90th	75th	50th	25th	10th
SPAN 1	1.0	1.0	.5	.0	.0
SPAN 2	1.5	1.0	.3	.0	.0
SPAN 3	1.0	.6	.0	.0	.0
SPAN 4	2.0	1.0	.1	.0	.0
SPAN 5	1.0	.5	.0	.0	.0
TOTAL	1.0	1.0	.5	.0	.0

Excluding 0 - All Schools Reporting Staff

SPAN 1	1.0	1.0	.8	.5	.2
SPAN 2	2.0	1.1	1.0	.5	.3
SPAN 3	1.0	1.0	.6	.5	.4
SPAN 4	2.0	1.5	1.0	.6	.5
SPAN 5	1.3	1.0	1.0	.5	.2
TOTAL	1.4	1.0	1.0	.5	.2

TABLE 9
Expenditures for Materials Collections by Span

SCHOOLS NOT MEETING STANDARDS

SPAN	COUNT		ENROLLMENT	PRINT	NONPRINT	TOTAL	TOTAL COST TO REACH PHASE I	% OF PHASE I ACHIEVED	AVERAGE PER STUDENT	AVERAGE PER SCHOOL
1	Actual	484	142,067	628,066	327,099	955,165	7,103,350	13.45	6.72	1,973.48
	Estimate	359	96,561	390,596	191,344	581,940	4,828,050	12.05	6.03	1,621.03
	Total	843	238,628	1,018,662	518,443	1,537,105	11,931,400	12.88	6.44	1,823.37
2	Actual	342	167,011	1,080,149	345,315	1,425,464	8,350,550	17.07	8.54	4,168.02
	Estimate	207	87,692	553,427	191,446	744,873	4,384,600	16.99	8.49	3,598.42
	Total	549	254,703	1,633,576	536,761	2,170,337	12,735,150	17.04	8.52	3,953.26
3	Actual	36	13,682	$ 61,829	$ 18,964	$ 80,793	$ 684,100	11.81	$ 5.91	$ 2,244.25
	Estimate	18	6,997	$ 35,344	$ 11,769	$ 47,113	$ 349,850	13.47	$ 6.73	$ 2,617.39
	Total	54	20,679	$ 97,173	$ 30,733	$ 127,906	$ 1,033,950	12.37	$ 6.19	$ 2,353.94
4	Actual	41	15,294	$ 87,893	$ 28,895	$ 116,788	$ 764,700	15.27	$ 7.64	$ 2,848.49
	Estimate	19	7,140	$ 46,368	$ 19,296	$ 65,664	$ 357,000	18.39	$ 9.20	$ 3,456.00
	Total	60	22,434	$ 134,261	$ 48,191	$ 182,452	$ 1,121,700	16.27	$ 8.13	$ 3,040.87
5	Actual	23	8,112	$ 41,080	$ 12,825	$ 53,905	$ 405,600	13.29	$ 6.65	$ 2,343.70
	Estimate	11	4,124	$ 18,749	$ 3,463	$ 22,212	$ 206,200	10.77	$ 5.39	$ 2,019,27
	Total	34	12,236	$ 59,829	$ 16,288	$ 76,117	$ 611,800	12.44	$ 6.22	$ 2,238,74
TOTALS	Actual	926	346,166	$1,899,017	$ 733,098	$2,632,115	$17,308,300	15.21	$ 7.60	$ 2,842.46
	Estimate	614	202,514	$1,044,484	$ 417,318	$1,461,802	$10,125,700	14.44	$ 7.22	$ 2,380.79
	Total	1,540	548,680	$2,943,501	$1,150,416	$4,093,917	$27,434,000	14.92	$ 7.46	$ 2,658.39

SCHOOLS MEETING STANDARDS

SPAN	COUNT		ENROLLMENT	PRINT	NONPRINT	TOTAL	TOTAL COST TO REACH PHASE I	% OF PHASE I ACHIEVED	AVERAGE PER STUDENT	AVERAGE PER SCHOOL
2	Actual	1	222	$ 19,905		$ 19,905	$ 11,100	179.32	$89.66	$19,905.00
3	Estimate	1	278	$ 10,000	$ 4,000	$ 14,000	$ 13,900	100.72	$50.36	$14,000.00
TOTALS		2	500	$ 29,905	$ 4,000	$ 33,905	$ 25,000	135.62	$67.81	$16,952.50
GRAND TOTAL		1,542	549,180	$2,973,406	$1,154,416	$4,127,822	$27,459,000	15.03	$ 7.52	$ 2,676.93

TABLE 9.1
Range of Expenditures
by Span

	SPAN 1	SPAN 2	SPAN 3	SPAN 4	SPAN 5
ACTUAL	$.49 - $33.64	$.93 - $39.68	$.92 - $17.09	$1.80 - $18.89	$3.00 - $17.08
ESTIMATE	$.55 - $37.27	$.76 - $30.75	$.67 - $17.19	$4.70 - $18.15	$2.68 - $11.48
TOTAL	$.49 - $37.27	$.76 - $39.68	$.67 - $17.19	$1.80 - $18.89	$2.68 - $17.08

TABLE 9.2
Total Media Center Expenditures by Span

SPAN	COUNT	ENROLLMENT	PRINT	NONPRINT	EQUIPMENT	SUPPLIES	TOTAL	AVERAGE PER STUDENT	AVERAGE PER SCHOOL
1	843	238,628	1,018,662	518,443	467,476	160,960	2,165,541	9.08	2,568.85
2	550	254,925	1,653,481	536,761	673,068	303,324	3,166,634	12.42	5,757.52
3	55	20,957	107,173	34,733	49,891	11,307	203,104	9.69	3,692.80
4	60	22,434	134,261	48,191	46,378	22,928	251,758	11.22	4,195.97
5	34	12,236	59,829	16,288	21,436	11,610	109,163	8.92	3,210.68
TOTAL	1,542	549,180	2,973,406	1,154,416	1,258,249	510,129	5,896,200	10.74	3,823.74

TABLE 9.3
Expenditures for Materials Collection by Span

			PRINT			NONPRINT			EQUIPMENT			SUPPLIES		
SPAN	COUNT	ENROLL-MENT	AMOUNT	AVE/ STUDENT	AVE/ SCHOOL	AMOUNT	AVE/ STUDENT	AVE/ SCHOOL	AMOUNT	AVE/ STUDENT	AVE/ SCHOOL	AMOUNT	AVE/ STUDENT	AVE/ SCHOOL
1	843	238,628	1,018,662	4.27	1,208.38	518,443	2.17	615.00	467,476	1.96	554.54	160,960	0.67	190.94
2	550	254,925	1,653,481	6.48	3,006.33	536,761	2.10	977.75	673,068	2.64	1,223.76	303,324	1.19	551.50
3	55	20,957	107,173	5.11	1,948.60	34,733	1.66	631.51	49,891	2.38	907.11	11,307	0.54	205.58
4	60	24,434	134,261	5.98	2,237.68	48,191	2.15	803.18	46,378	2.07	772.97	22,928	1.02	382.13
5	34	12,236	59,829	4.89	1,759.68	16,288	1.33	479.06	21,436	1.75	630.47	11,610	0.95	341.47
TOTAL	1,542	549,180	2,973,406	5.41	1,928.28	1,154,116	2.10	748.65	1,258,249	2.29	815.99	510,129	0.93	330.82

with Detail by Size

				PRINT			NONPRINT			EQUIPMENT			SUPPLIES		
SPAN	SIZE	COUNT	ENROLL- MENT	AMOUNT	AVE/ STUDENT	AVE/ SCHOOL	AMOUNT	AVE/ STUDENT	AVE/ SCHOOL	AMOUNT	AVE/ STUDENT	AVE/ SCHOOL	AMOUNT	AVE/ STUDENT	AVE/ SCHOOL
1	1	87	13,659	67,599	4.95	777.00	20,977	1.54	241.11	27,822	2.04	319.79	13,334	0.98	153.26
	2	84	19,109	86,681	4.54	1,031.92	38,221	2.00	455.01	40,211	2.10	478.70	12,537	0.66	149.25
	3	82	22,396	106,286	4.75	1,296.17	41,356	1.85	504.34	53,669	2.40	645.50	17,385	0.78	212.01
	4	76	19,831	87,141	4.39	1,146.59	31,360	1.58	412.63	36,821	1.86	484.49	15,145	0.76	199.28
	5	68	16,385	69,784	4.26	1,026.24	31,560	1.93	464.12	28,621	1.75	420.90	10,821	0.66	159.13
	6	113	28,265	139,462	4.93	1,234.18	50,996	1.80	451.29	78,294	2.77	692.87	17,844	0.63	157.91
	7	333	118,983	461,709	3.88	1,386.51	303,973	2.55	912.83	202,038	1.70	606.72	73,894	0.62	221.90
	TOTAL	843	238,628	1,018,662	4.27	1,208.38	518,443	2.17	615.00	467,476	1.96	554.54	160,960	0.67	190.94
2	1	117	20,399	177,033	8.68	1,513.10	32,276	1.58	275.86	73,763	3.62	630.45	23,089	1.13	197.34
	2	84	22,070	164,254	7.44	1,955.40	44,295	2.01	527.32	70,217	3.18	835.92	25,203	1.14	300.04
	3	87	27,980	207,872	7.43	2,389.33	62,079	2.22	713.55	91,783	3.28	1,054.98	32.155	1.15	369.60
	4	59	24,011	179,131	7.46	3,036.12	51,159	2.13	867.10	74,161	3.09	1,256.97	38,657	1.61	655.20
	5	34	15,418	116,559	7.56	3,428.21	39,627	2.57	1,165.50	39,316	2.55	1,156.35	20,161	1.31	592.97
	6	58	36,354	272,943	7.51	4,705.91	98,416	2.71	1,696.83	131,332	3.61	2,264.34	50,055	1.38	863.01
	7	111	108,693	535,689	4.93	4,826.03	208,909	1.92	1,882.06	192,496	1.77	1,734.20	114,004	1.05	1,027.06
	TOTAL	550	254,925	1,653,481	6.48	3,006.33	536,761	2.10	977.75	673,068	2.64	1,223.76	303,324	1.19	551.50
3	1	18	3,802	26,181	6.89	1,454.50	8,908	2.34	494.89	13,702	3.60	761.22	2,360	0.62	131.11
	2	12	3,472	15,548	4.48	1,295.67	4,396	1.27	366.33	10,302	2.97	858.50	2,563	0.74	213.58
	3	8	3,295	7,733	2.35	966.63	4,400	1.34	550.00	7,334	2.23	916.75	1,442	0.44	180.25
	4	10	4,546	20,740	4.56	2,074.00	9,200	2.02	920.00	2,921	0.64	292.10	1,692	0.37	169.20
	5	1	1,082	4,000	3.70	4,000.00	1,400	1.29	1,400.00	1,800	1.66	1,800.00	1,000	0.92	1,000.00
	6	1	1,140	5,500	4.82	5,500.00	700	0.61	700.00	1,800	1.58	1,800.00	600	0.53	600.00
	7	5	3,620	27,471	7.59	5,494.20	5,729	1.58	1,145.80	12,032	3.32	2,406.40	1,650	0.46	330.00
	TOTAL	55	20,957	107,173	5.11	1,948.60	34,733	1.66	631.51	49,891	2.38	907.11	11,307	0.54	205.58
4	1	5	684	4,413	6.45	882.60	743	1.09	185.75	1,625	2.38	325.00	407	0.60	81.40
	2	11	1,898	14,001	7.38	1,272.82	2,038	1.07	185.27	4,009	2.11	364.45	1,075	0.57	97.73
	3	13	3,157	20,134	6.38	1,548.77	5,631	1.78	433.15	9,407	2.98	723.62	2,669	0.85	205.31
	4	13	4,272	30,981	7.25	2,383.15	12,398	2.90	953.69	9,104	2.13	700.31	7,675	1.80	590.38
	5	5	2,093	14,219	6.79		2,751	1.31	550.20	2,138	1.02	427.60	1,307	0.62	261.40
	6	4	2,421	16,220	6.70	4,055.00	3,250	1.67	812.50	9,500	3.92	2,375.00	1,900	0.78	475.00
	7	9	7,909	34,293	4.34	3,810.33	21,380	2.70	2,375.56	9,715	1.23	1,079.44	7,895	1.00	877.22
	TOTAL	60	22,434	134,261	5.98	2,237.68	48,191	2.15	803.18	46,378	2.07	772.97	22,928	1.02	382.13
5	1	25	7,640	42,168	5.52	1,686.72	11,892	1.56	475.68	11,855	1.55	474.20	6,049	0.79	241.96
	2	8	3,822	15,583	4.08	1,947.88	4,396	1.15	549.50	9,581	2.51	1,197.63	3,941	1.03	492.63
	3	0	0	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00
	4	1	774	2,078	2.68	2,078.00	0	0.00	0.00	0	0.00	0.00	1,620	2.09	1,620.00
	5	0	0	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00
	6	0	0	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00
	7	0	0	0	0.00	0,00	0	0.00	0,00	0	0.00	0.00	0	0.00	0.00
	TOTAL	34	12,236	59,829	4.89	1,759.68	16,288	1.33	479.06	21,436	1.75	630.47	11,610	0.95	341.47
GRAND TOTAL		1,542	549,180	2,973,406	5.41	1,928.28	1,154,416	2.10	748.65	1,258,249	2.29	815.99	510,129	0.93	330.82

TABLE 9.5
Expenditures for Materials Collection by Size

			PRINT			NONPRINT			EQUIPMENT			SUPPLIES		
SIZE	COUNT	ENROLL-MENT	AMOUNT	AVE/ STUDENT	AVE/ SCHOOL	AMOUNT	AVE/ STUDENT	AVE/ SCHOOL	AMOUNT	AVE/ STUDENT	AVE/ SCHOOL	AMOUNT	AVE/ STUDENT	AVE/ SCHOOL
1	252	46,184	317,394	6.87	1,259.50	74,796	1.62	296.81	129,647	2.81	514.47	45,239	0.98	179.52
2	199	50,371	296,067	5.88	1,487.77	93,346	1.85	469.08	134,320	2.67	674.97	45,319	0.90	227.73
3	190	56,828	342,025	6.02	1,800.13	113,466	2.00	597.19	162,193	2.85	853.65	53,651	0.94	282.37
4	159	53,434	320,071	5.99	2,013.03	104,117	1.95	654.82	123,007	2.30	773.63	64,789	1.21	407.48
5	108	34,978	204,562	5.85	1,894.09	75,338	2.15	697.57	71,875	2.05	665.51	33,289	0.95	308.23
6	176	68,180	434,125	6.37	2,466.62	153,362	2.25	871.38	220,926	3.24	1,255.26	70,399	1.03	399.99
7	458	239,205	1,059,162	4.43	2,312.58	539,991	2.26	1,179.02	416,281	1.74	908.91	197,443	0.83	431.10
TOTAL	1,542	549,180	2,973,406	5.41	1,928.28	1,154,416	2.10	748.65	1,258,249	2.29	815.99	510,129	0.93	330.82

TABLE 9.6
Expenditures for Materials Collection by Size with Detail by Span

					PRINT			NONPRINT			EQUIPMENT			SUPPLIES		
SIZE	SPAN		COUNT	ENROLL-MENT	AMOUNT	AVE/ STUDENT	AVE/ SCHOOL	AMOUNT	AVE/ STUDENT	AVE/ SCHOOL	AMOUNT	AVE/ STUDENT	AVE/ SCHOOL	AMOUNT	AVE/ STUDENT	AVE/ SCHOOL
1	1	ACT.	38	6,442	32,799	5.09	863.13	9,154	1.42	240.89	11,012	1.71	289.79	5,656	0.88	148.84
		EST.	49	7,217	34,800	4.82	710.20	11,823	1.64	241.29	16,810	2.33	343.06	7,678	1.06	156.69
		TOTAL	87	13,659	67,599	4.95	777.00	20,977	1.54	241.11	27,822	2.04	319.79	13,334	0.98	153.26
	2	ACT.	65	11,289	107,975	9.56	1,661.15	17,237	1.53	265.18	43,524	3.86	669.60	12,286	1.09	189.02
		EST.	52	9,110	69,058	7.58	1,328.04	15,039	1.65	289.21	30,239	3.32	581.52	10,803	1.19	207.75
		TOTAL	117	20,399	177,033	8.68	1,513.10	32,276	1.58	275.86	73,763	3.62	630.45	23,089	1.13	197.34
	3	ACT.	13	2,441	10,781	4.42	829.31	3,008	1.23	231.38	5,102	2.09	392.46	1,160	0.48	89.23
		EST.	5	1,361	15,400	11.32	3,080.00	5,900	4.34	1,180.00	8,600	6.32	1,720.00	1,200	0.88	240.00
		TOTAL	18	3,802	26,181	6.89	1,454.50	8,908	2.34	494.89	13,702	3.60	761.22	2,360	0.62	131.11
	4	ACT.	2	233	1,213	5.21	606.50	426	1.83	213.00	405	1.74	202.50	222	0.95	111.00
		EST.	3	451	3,200	7.10	1,066.67	317	0.70	105.67	1,220	2.71	406.67	185	0.41	61.67
		TOTAL	5	684	4,413	6.45	882.60	743	1.09	185.75	1,625	2.38	325.00	407	0.60	81.40
	5	ACT.	17	5,245	29,868	5.69	1,756.94	9,882	1.88	581.29	8,390	1.60	493.53	4,440	0.85	261.18
		EST.	8	2,395	12,300	5.14	1,537.50	2,010	0.84	251.25	3,465	1.45	433.13	1,609	0.67	201.13
		TOTAL	25	7,640	42,168	5.52	1,686.72	11,892	1.56	475.68	11,855	1.55	474.20	6,049	0.79	241.96
	TOTAL	ACT.	135	25,650	182,636	7.12	1,352.86	39,707	1.55	294.13	68,433	2.67	506.91	23,764	0.93	176.03
		EST.	117	20,534	134,758	6.56	1,151.78	35,089	1.71	299.91	61,214	2.98	523.20	21,475	1.05	183.55
		TOTAL	252	46,184	317,394	6.87	1,259.50	74,796	1.62	296.81	129,647	2.81	514.47	45,239	0.98	179.52

TABLE 9.6 con't.

					PRINT			NONPRINT			EQUIPMENT			SUPPLIES		
SIZE	SPAN		COUNT	ENROLL-MENT	AMOUNT	AVE/ STUDENT	AVE/ SCHOOL	AMOUNT	AVE/ STUDENT	AVE/ SCHOOL	AMOUNT	AVE/ STUDENT	AVE/ SCHOOL	AMOUNT	AVE/ STUDENT	AVE/ SCHOOL
2	1	ACT.	45	10,231	49,346	4.82	1,096.58	25,862	2.53	574.71	23,961	2.34	532.47	7,164	0.70	159.20
		EST.	39	8,878	37,335	4.21	957.31	12,359	1.39	316.90	16,250	1.83	416.67	5,373	0.61	137.77
		TOTAL	84	19,109	86,681	4.54	1,031.92	38,221	2.00	455.01	40,211	2.10	478.70	12,537	0.66	149.25
	2	ACT.	55	15,143	116,842	7.72	2,124.40	28,780	1.90	523.27	39,571	2.61	719.47	17,786	1.17	323.38
		EST.	29	6,927	47,412	6.84	1,634.90	15,515	2.24	535.00	30,646	4.42	1,056.76	7,417	1.07	255.76
		TOTAL	84	22,070	164,254	7.44	1,955.40	44,295	2.01	527.32	70,217	3.18	835.92	25,203	1.14	300.04
	3	ACT.	7	2,156	9,758	4.53	1,394.00	2,856	1.32	408.00	3,402	1.58	486.00	2,113	0.98	301.86
		EST.	5	1,316	5,790	4.40	1,158.00	1,540	1.17	308.00	6,900	5.24	1,380.00	450	0.34	90.00
		TOTAL	12	3,472	15,548	4.48	1,295.67	4,396	1.27	366.33	10,302	2.97	858.50	2,563	0.74	213.58
	4	ACT.	8	1,295	9,883	7.63	1,235.38	1,027	0.79	128.38	2,759	2.13	344.86	675	0.52	84.38
		EST.	3	603	4,118	6.83	1,372.67	1,011	1.68	337.00	1,250	2.07	416.67	400	0.66	133.33
		TOTAL	11	1,898	14,001	7.38	1,272.82	2,038	1.07	185.27	4,009	2.11	364.45	1,075	0.57	97.73
	5	ACT.	6	2,867	11,212	3.91	1,868.67	2,943	1.03	490.50	8,581	2.99	1,430.17	3,407	1.19	567.83
		EST.	2	955	4,371	4.58	2,185.50	1,453	1.52	726.50	1,000	1.05	500.00	534	0.56	267.00
		TOTAL	8	3,822	15,583	4.08	1,947.88	4,396	1.15	549.50	9,581	2.51	1,197.63	3,941	1.03	492.63
	TOTAL	ACT.	121	31,692	197,041	6.22	1,628.44	61,468	1.94	508.00	78,274	2.47	646.90	31,145	0.98	257.40
		EST.	78	18,679	99,026	5.30	1,269.56	31,878	1.71	408.69	56,046	3.00	718.54	14,174	0.76	181.72
		TOTAL	199	50,371	296,067	5.88	1,487.77	93,346	1.85	469.08	134,320	2.67	674.97	45,319	0.90	227.73

TABLE 9.6 con't.

				PRINT			NONPRINT			EQUIPMENT			SUPPLIES		
SIZE	SPAN		COUNT	ENROLL-MENT	AMOUNT	AVE/ STUDENT	AVE/ SCHOOL	AMOUNT	AVE/ STUDENT	AVE/ SCHOOL	AMOUNT	AVE/ STUDENT	AVE/ SCHOOL	AMOUNT	AVE/ STUDENT	AVE/ SCHOOL
3	1	ACT.	48	13,180	63,856	4.84	1,330.33	23,113	1.75	481.52	34,452	2.61	717.75	11,045	0.84	230.10
		EST.	34	9,216	42,430	4.60	1,247.94	18,243	1.98	536.56	19,217	2.09	565.21	6,340	0.69	186.47
		TOTAL	82	22,396	106,286	4.75	1,296.17	41,356	1.85	504.34	53,669	2.40	645.50	17,385	0.78	212.01
	2	ACT.	55	17,766	130,390	7.34	2,370.73	36,423	2.05	662.24	48,176	2.71	875.93	19,024	1.07	345.89
		EST.	32	10,214	77,482	7.59	2,421.31	25,656	2.51	801.75	43,607	4.27	1,362.72	13,131	1.29	410.34
		TOTAL	87	27,980	207,872	7.43	2,389.33	62,079	2.22	713.55	91,783	3.28	1,054.98	32,155	1.15	369.60
	3	ACT.	3	1,632	2,500	1.53	833.33	2,600	1.59	866.67	5,463	3.35	1,821.00	325	0.20	108.33
		EST.	5	1,663	5,233	3.15	1,046.60	1,800	1.08	360.00	1,871	1.13	374.20	1,117	0.67	223.40
		TOTAL	8	3,295	7,733	2.35	966.63	4,400	1.34	550.00	7,334	2.23	916.75	1,442	0.44	180.25
	4	ACT.	10	2,403	12,934	5.38	1,293.40	4,231	1.76	423.10	7,007	2.92	700.70	1,994	0.83	199.40
		EST.	3	754	7,200	9.55	2,400.00	1,400	1.86	466.67	2,400	13.18	800.00	675	0.90	225.00
		TOTAL	13	3,157	20,134	6.38	1,548.77	5,631	1.78	433.15	9,407	2.98	723.62	2,669	0.85	205.31
	5	ACT.	0	0	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00
		EST.	0	0	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00
		TOTAL	0	0	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00
	TOTAL	ACT.	116	34,981	209,680	5.99	1,807.59	66,367	1.90	572.13	95,098	2.72	819.81	32,388	0.93	279.21
		EST.	74	21,847	132,345	6.06	1,788.45	47,099	2.16	635.47	67,095	3.07	906.69	21,263	0.97	287.34
		TOTAL	190	56,828	342,025	6.02	1,800.13	113,466	2.00	597.19	162,193	2.85	853.65	53,651	0.94	282.37

TABLE 9.6 con't.

				PRINT			NONPRINT			EQUIPMENT			SUPPLIES		
SIZE	SPAN	COUNT	ENROLL-MENT	AMOUNT	AVE/ STUDENT	AVE/ SCHOOL	AMOUNT	AVE/ STUDENT	AVE/ SCHOOL	AMOUNT	AVE/ STUDENT	AVE/ SCHOOL	AMOUNT	AVE/ STUDENT	AVE/ SCHOOL
4	1 ACT.	42	11,488	53,663	4.69	1,277.69	14,852	1.30	353.62	19,862	1.74	472.90	8,011	0.70	190.74
	EST.	34	8,383	33,478	3.99	984.65	16,508	1.97	485.53	16,959	2.02	498.79	7,134	0.85	209.82
	TOTAL	76	19,831	87,141	4.39	1,146.59	31,360	1.58	412.63	36,821	1.86	484.49	15,145	0.76	199.28
	2 ACT.	36	14,989	119,375	7.96	3,315.97	33,054	2.21	918.17	44,636	2.98	1,239.89	25,116	1.68	697.67
	EST.	23	9,022	59,756	6.62	2,598.08	18,105	2.01	787.17	29,525	3.27	1,283.70	13,541	1.50	588.74
	TOTAL	59	24,011	179,131	7.46	3,036.12	51,159	2.13	867.10	74,161	3.09	1,256.97	38,657	1.61	655.20
	3 ACT.	8	3,343	11,190	3.35	1,398.75	4,500	1.35	562.50	771	0.23	96.38	1,242	0.37	155.25
	EST.	2	1,203	9,550	7.94	4,775.00	4,700	3.91	2,350.00	2,150	1.79	1,075.00	450	0.37	225.00
	TOTAL	10	4,546	20,740	4.56	2,074.00	9,200	2.02	920.00	2,921	0.64	292.10	1,692	0.37	169.20
	4 ACT.	7	2,418	14,881	6.15	2,125.86	7,098	2.94	1,014.00	5,554	2.30	793.43	4,650	1.92	664.29
	EST.	6	1,854	16,100	8.68	2,683.33	5,300	2.86	883.33	3,550	1.91	591.67	3,025	1.63	504.17
	TOTAL	13	4,272	30,981	7.25	2,383.15	12,398	2.90	953.69	9,104	2.13	700.31	7,675	1.80	590.38
	5 ACT.	0	0	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00
	EST.	1	774	2,078	2.68	2,078.00	0	0.00	0.00	0	0.00	0.00	1,620	2.09	1,620.00
	TOTAL	1	774	2,078	2.68	2,078.00	0	0.00	0.00	0	0.00	0.00	1,620	2.09	1,620.00
	TOTAL ACT.	93	32,198	199,109	6.18	2,140.96	59,504	1.85	639.83	70,823	2.20	761.54	39,019	1.21	419.56
	EST.	66	21,236	120,962	5.70	1,832.76	44,613	2.10	675.95	52,184	2.46	790.67	25,770	1.21	390.45
	TOTAL	159	53,434	320,071	5.99	2,013.03	104,117	1.95	654.82	123,007	2.30	773.63	64,789	1.21	407.48

TABLE 9.6 con't.

				PRINT			NONPRINT			EQUIPMENT			SUPPLIES		
SIZE	SPAN		COUNT	ENROLL-MENT	AMOUNT	AVE/ STUDENT	AVE/ SCHOOL	AMOUNT	AVE/ STUDENT	AVE/ SCHOOL	AMOUNT	AVE/ STUDENT	AVE/ SCHOOL	AMOUNT	AVE/ STUDENT	AVE/ SCHOOL
5	1	ACT.	44	10,742	47,782	4.45	1,085.95	23,552	2.19	535.27	19,207	1.79	436.52	7,006	0.65	159.23
		EST.	24	5,643	22,002	3.90	916.75	8,008	1.42	333.67	9,414	1.67	392.25	3,815	0.68	158.96
		TOTAL	68	16,385	69,784	4.26	1,026.24	31,560	1.93	464.12	28,621	1.75	420.90	10,821	0.66	159.13
	2	ACT.	23	10,679	86,909	8.14	3,778.65	33,117	3.10	1,439.87	29,116	2.73	1,265.91	16,753	1.57	728.39
		EST.	11	4,739	29,650	6.26	2,695 45	6,510	1.37	591.82	10,200	2.15	927.27	3,408	0.72	309.82
		TOTAL	34	15,418	116,559	7.56	3,428.21	39,627	2.57	1,165.50	39,316	2.55	1,156.35	20,161	1.31	592.97
	3	ACT.	1	1,082	4,000	3.70	4,000.00	1,400	1.29	1,400.00	1,800	1.66	1,800.00	1,000	0.92	1,000.00
		EST.	0	0	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00
		TOTAL	1	1,082	4,000	3.70	4,000.00	1,400	1.29	1,400.00	1,800	1.66	1,800.00	1,000	0.92	1,000.00
	4	ACT.	3	1,334	9,774	7.33	3,258.00	1,033	0.77	344.33	1,338	1.00	446.00	732	0.55	244.00
		EST.	2	759	4,445	5.86	2,222.50	1,718	2.26	859.00	800	1.05	400.00	575	0.76	287.50
		TOTAL	5	2,093	14,219	6.79	2,843.80	2,751	1.31	550.20	2,138	1.02	427.60	1,307	0.62	261.40
	5	ACT.	0	0	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00
		EST.	0	0	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00
		TOTAL	0	0	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00
	TOTAL	ACT.	71	23,837	148,465	6.23	2,091.06	59,102	2.48	832.42	51,461	2.16	724.80	25,491	1.07	359.03
		EST.	37	11,141	56,097	5.04	1,516.14	16,236	1.46	438.81	20,414	1.83	551.73	7,798	0.70	210.76
		TOTAL	108	34,978	204,562	5.85	1,894.09	75,338	2.15	697.57	71,875	2.05	665.51	33,289	0.95	308.23

TABLE 9.6 con't.

SIZE	SPAN		COUNT	ENROLL-MENT	PRINT			NONPRINT			EQUIPMENT			SUPPLIES		
					AMOUNT	AVE/ STUDENT	AVE/ SCHOOL	AMOUNT	AVE/ STUDENT	AVE/ SCHOOL	AMOUNT	AVE/ STUDENT	AVE/ SCHOOL	AMOUNT	AVE/ STUDENT	AVE/ SCHOOL
6	1	ACT.	66	17,688	86,810	4.91	1,315.30	35,492	2.01	537.76	46,586	2.63	705.85	11,327	0.64	171.62
		EST.	47	10,577	52,652	4.98	1,120.26	15,504	1.47	329.87	31,708	3.00	674.64	6,517	0.62	138.66
		TOTAL	113	28,265	139,462	4.93	1,234.18	50,996	1.80	451.29	78,294	2.77	692.87	17,844	0.63	157.91
	2	ACT.	33	19,962	155,938	7.81	4,725.39	46,131	2.31	1,397.91	68,817	3.45	2,085.36	32,683	1.64	990.39
		EST.	25	16,392	117,005	7.14	4,680.20	52,285	3.19	2,091.40	62,515	3.81	2,500.60	17,372	1.06	694.88
		TOTAL	58	36,354	272,943	7.51	4,705.91	98,416	2.71	1,696.83	131,332	3.61	2,264.34	50,055	1.38	863.01
	3	ACT.	0	0	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00
		EST.	1	1,140	5,500	4.82	5,500.00	700	0.61	700.00	1,800	1.58	1,800.00	600	0.53	600.00
		TOTAL	1	1,140	5,500	4.82	5,500.00	700	0.61	700.00	1,800	1.58	1,800.00	600	0.53	600.00
	4	ACT.	4	2,421	16,220	6.70	4,055.00	3,250	1.67	812.50	9,500	3.92	2,375.00	1,900	0.78	475.00
		EST.	0	0	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00
		TOTAL	4	2,421	16,220	6.70	4,055.00	3,250	1.67	812.50	9,500	3.92	2,375.00	1,900	0.78	475.00
	5	ACT.	0	0	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00
		EST.	0	0	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00
		TOTAL	0	0	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00
	TOTAL	ACT.	103	40,071	258,968	6.46	2,514.25	84,873	2.12	824.01	124,903	3.12	1,212.65	45,910	1.15	445.73
		EST.	73	28,109	175,157	6.23	2,399.41	68,489	2.44	938.21	96,023	3.42	1,315.38	24,489	0.87	335.47
		TOTAL	176	68,180	434,125	6.37	2,466.62	153,362	2.25	871.38	220,926	3.24	1,255.26	70,399	1.03	399.99

TABLE 9.6 con't.

					PRINT			NONPRINT			EQUIPMENT			SUPPLIES		
SIZE	SPAN		COUNT	ENROLL-MENT	AMOUNT	AVE/ STUDENT	AVE/ SCHOOL	AMOUNT	AVE/ STUDENT	AVE/ SCHOOL	AMOUNT	AVE/ STUDENT	AVE/ SCHOOL	AMOUNT	AVE/ STUDENT	AVE/ SCHOOL
7	1	ACT.	201	72,336	293,810	4.06	1,461.74	195,074	2.70	970.52	118,255	1.63	588.33	46,877	0.65	233.32
		EST.	132	46,647	167,899	3.60	1,271.96	108,899	2.33	824.99	83,783	1.80	634.72	27,017	0.58	204.67
		TOTAL	333	118,983	461,709	3.88	1,386.51	303,973	2.55	912.83	202,038	1.70	606.72	73,894	0.62	221.90
	2	ACT.	76	77,405	382,625	4.94	5,034.54	150,573	1.95	1,981.22	140,809	1.82	1,852.75	90,358	1.17	1,188.92
		EST.	35	31,288	153,064	4.90	4,373.26	58,336	1.86	1,666.74	51,687	1.66	1,476.77	23,646	0.76	675.60
		TOTAL	111	108,693	535,689	4.93	4,826.03	208,909	1.92	1,882.06	192,496	1.77	1,734.20	114,004	1.05	1,027.06
	3	ACT.	4	3,028	23,600	7.79	575.00	4,600	1.52	1,150.00	7,607	2.51	1,901.75	900	0.30	225.00
		EST.	1	592	3,871	6.54	3,871.00	1,129	1.91	1,129.00	4,425	7.47	4,425.00	750	1.27	750.00
		TOTAL	5	3,620	27,471	7.59	5,494.20	5,729	1.58	1,145.80	12,032	3.32	2,406.40	1,650	0.46	330.00
	4	ACT.	7	5,190	22,988	4.43	3,284.00	11,830	2.28	1,690.00	4,513	0.87	644.71	7,045	1.36	1,006.43
		EST.	2	2,719	11,305	4.16	5,652.50	9,550	3.51	4,775.00	5,202	1.91	2,601.00	850	0.31	425.00
		TOTAL	9	7,909	34,293	4.34	3,810.33	21,380	2.70	2,375.56	9,715	1.23	1,079.44	7,895	1.00	877.22
	5	ACT.	0	0	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00
		EST.	0	0	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00
		TOTAL	0	0	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00
	TOTAL	ACT.	288	157,959	723,023	4.58	2,510.50	362,077	2.29	1,257.21	271,184	1.72	941.61	145,180	0.92	504.10
		EST.	170	81,246	336,139	4.14	1,977.29	177,914	2.19	1,046.55	145,097	1.79	853.51	52,263	0.64	307.45
		TOTAL	458	239,205	1,059,162	4.43	2,312.58	539,991	2.26	1,179.02	416,281	1.74	908.91	197,443	0.83	431.10
GRAND	TOTAL	ACT.	927	346,388	1,918,922	5.54	2,070.03	733,098	2.12	790.83	760,176	2.19	820.04	342,897	0.99	369.90
		EST.	615	202,792	1,054,484	5.20	1,714.61	421,318	2.08	685.07	498,073	2.46	809.87	167,232	0.82	271.92
		TOTAL	1,542	549,180	2,973,406	5.41	1,928.28	1,154,416	2.10	748.65	1,258,249	2.29	815.99	510,129	0.93	330.82

TABLE 9.7
Range of Materials Expenditure Per School by Span

	SPAN	RANGE	PERCENTILES				
			90	75	50	25	10
PRINT MEDIA	1	$0- 6,000	$2,447	$1,711	$1,000	$552	$200
	2	0-19,905	5,900	4,000	2,500	1,416	785
	3	0-13,500	5,000	2,200	1,210	350	150
	4	235- 7,505	3,800	3,000	1,915	1,100	700
	5	250- 5,000	3,000	2,141	1,600	921	300
AV MEDIA	1	0- 8,430	1,500	781	350	100	0
	2	0- 8,470	2,750	1,244	500	150	0
	3	0- 4,500	1,600	700	400	0	0
	4	0- 6,450	1,910	1,000	400	122	0
	5	0- 3,000	911	674	300	150	50
PRINT AND AV	1	0-12,000	3,700	2,493	1,472	795	342
	2	0-20,000	8,150	5,250	3,100	1,739	1,000
	3	0-14,000	6,200	2,700	1,639	600	222
	4	0-13,955	5,027	3,930	2,345	1,500	725
	5	400- 6,800	3,500	2,726	2,100	1,210	750

TABLE 9.8
Range of All Expenditures Per Pupil by Span

SPAN	PERCENTILE	PRINT MATERIAL	NONPRINT MATERIAL	PRINT + NONPRINT MATERIAL	EQUIPMENT	SUPPLIES	PRINT + NONPRINT + SUPPLIES + EQUIPMENT
1	RANGE	0-$35.83	0-$29.27	0-$38.80	0-$19.70	0-$31.55	0-$44.77
	10TH	1.25	0.00	2.05	0.00	0.05	3.00
	25TH	2.45	0.49	3.57	0.26	0.23	5.27
	50TH	3.89	1.37	5.62	1.28	0.50	8.01
	75TH	5.93	2.78	8.51	2.74	0.91	12.56
	90TH	8.85	5.05	13.04	5.20	1.65	17.77
2	RANGE	0-$89.66	0-$17.12	0-$89.66	0-$25.48	0-$17.56	0-$90.45
	10TH	3.17	0.00	4.02	0.00	0.21	6.02
	25TH	4.39	0.46	5.93	0.63	0.45	8.52
	50TH	6.64	1.48	8.57	1.88	0.83	11.81
	75TH	9.00	2.77	11.61	3.83	1.44	16.94
	90TH	10.15	4.68	15.41	7.14	2.57	22.68
3	RANGE	0-$35.97	0-$14.38	0-$50.35	0-$28.77	0-$ 2.39	0-$81.29
	10TH	0.54	0.00	1.10	0.00	0.00	1.77
	25TH	1.58	0.00	2.40	0.00	0.15	3.64
	50TH	3.96	1.00	5.43	0.94	0.44	7.57
	75TH	5.87	2.05	7.95	2.52	0.74	11.60
	90TH	9.12	3.57	11.51	6.66	1.22	16.76
4	RANGE	$1.59-$18.88	0-$7.51	$1.80-18.89	0-$16.93	0-$ 5.11	$2.52-$28.52
	10TH	3.37	0.00	3.84	0.00	0.15	5.71
	25TH	4.14	0.72	5.93	0.49	0.36	8.18
	50TH	6.06	1.42	8.18	1.51	0.78	10.22
	75TH	7.68	3.08	10.58	2.25	1.29	14.49
	90TH	11.53	4.54	13.17	5.12	1.90	23.19
5	RANGE	$0.75-11.96	0-$ 7.53	$2.27-$17.08	0-$ 7.69	$0.08-$2.39	$3.48-$21.36
	10TH	1.47	0.11	2.42	0.00	0.15	3.78
	25TH	3.02	0.48	3.92	0.38	0.41	5.41
	50TH	3.89	0.83	5.04	0.86	0.75	7.56
	75TH	6.68	2.37	8.37	2.08	1.17	11.66
	90TH	9.49	2.67	11.48	4.87	1.70	14.84

TABLE 10
Schools Reporting a Physical Space Used as a Library or Media Center

SPAN CODE	SCHOOLS REPORTING	SCHOOLS IN SPAN	PERCENTAGE WITH CENTER
1 (K-6)	728	843	86.36
2 (7-12)	542	550	98.73
3 (K-8)	43	55	78.18
4 (Middle)	58	60	96.67
5 (K-12)	32	34	94.12
TOTALS	1,403	1,542	90.99

Schools reporting no center	139	9.01

TABLE 10.1
Schools Reporting a Physical Space used
as a Library or Media Center
by Span with Detail by Size

	SIZE CODE	SCHOOLS REPORTING	SCHOOLS IN SIZE	% WITH CENTER
Span code 1	1	72	87	82.76
	2	67	84	79.76
	3	66	82	80.49
	4	62	76	81.58
	5	50	68	73.53
	6	94	113	83.19
	7	317	333	95.20
		728	843	86.36
Span code 2	1	114	117	97.44
	2	82	84	97.62
	3	87	87	100.00
	4	58	59	98.31
	5	34	34	100.00
	6	58	58	100.00
	7	109	111	98.20
		542	550	98.73
Span code 3	1	16	18	88.89
	2	9	12	75.00
	3	6	8	75.00
	4	6	10	60.00
	5	1	1	100.00
	6	1	1	100.00
	7	4	5	80.00
		43	55	78.18
Span code 4	1	5	5	100.00
	2	10	11	90.91
	3	13	13	100.00
	4	12	13	92.31
	5	5	5	100.00
	6	4	4	100.00
	7	9	9	100.00
		58	60	96.67
Span code 5	1	24	25	96.00
	2	7	8	87.50
	3	0	0	-----
	4	1	1	100.00
	5	0	0	94.12
	6	0	0	-----
	7	0	0	-----
		32	34	94.12
Grand Total		1403	1542	90.99

TABLE 10.2
Schools Reporting a Physical Space Used as a Library or Media Center by Size with Detail by Span

	SPAN CODE	SCHOOLS REPORTING	SCHOOLS IN SPAN	% WITH CENTERS
Size code 1	1	72	87	82.76
	2	114	117	97.44
	3	16	18	88.89
	4	5	5	100.00
	5	24	25	96.00
Total size 1		231	252	91.67
Size code 2	1	67	84	79.76
	2	82	84	97.62
	3	9	12	75.00
	4	10	11	90.91
	5	7	8	87.50
Total size 2		175	199	87.94
Size code 3	1	66	82	80.49
	2	87	87	100.00
	3	6	8	75.00
	4	13	13	100.00
	5	0	0	-----
Total Size 3		172	190	90.53
Size code 4	1	62	76	81.58
	2	58	59	98.31
	3	6	10	60.00
	4	12	13	92.31
	5	1	1	100.00
Total size 4		139	159	87.42
Size Code 5	1	50	68	73.53
	2	34	34	100.00
	3	1	1	100.00
	4	5	5	100.00
	5	0	0	-----
Total size 5		90	108	83.33

TABLE 10.2 con't.

	SPAN CODE	SCHOOLS REPORTING	SCHOOLS IN SPAN	% WITH CENTERS
Size code 6	1	94	113	84.19
	2	58	58	100.00
	3	1	1	100.00
	4	4	4	100.00
	5	0	0	-----
Total size 6		157	176	89.20
Size code 7	1	317	333	95.20
	2	109	111	98.20
	3	4	5	80.00
	4	9	9	100.00
	5	0	0	-----
Total Size 7		439	458	95.98
Grand Total		1403	1542	90.99

TABLE 11
Names by Which Physical Space Is Called

	No. Of Schools	%		No. Of Schools	%
Library (with variations)	833	59.84	Media Center (with variations)	296	21.26
Library - AV	17	1.22	IMC	96	6.90
Library Media Center	84	6.03	Learning (Resource) Center	41	2.95
Library - IMC	4	.29	Other	21	1.51
Total Library Related	938	67.39	Total, All Names	1392	100.00

TABLE 11.1
Variations Among Names for Physical Space

	No. of Schools	%
Library (with variations)	833	59.85
Library	795	
Book & Magazine Library	1	
Learning Center and Library	1	
Library & Conference Room	1	
Library & Curriculum	1	
Library Curriculum Office and vice versa	2	
Library/Study Hall and vice versa	15	
Library Center	2	
Library Hall	1	
Library Learning Resource	1	
Library Reading Center	1	
Library Resource Area or Center	6	
Library Music Room and vice versa	2	
Library/Workroom or Area	2	
Library Classroom	1	
Library - AV	17	1.22
Library - AV and vice versa	14	
Library and Film Room	1	
Library and Listening	1	
Library - Production class	1	
Library Media Center and vice versa	84	6.03
Library - IMC	4	.29
Total Library Related	938	67.39
Media Center (with variations)	296	21.26
Media Center	219	
Instructional Media	65	
Instructional Media Center	1	
Learning Media Center	6	
Media Center/Study Hall	1	
Media Resource Room	1	
Media Room	3	
IMC or Instructional Materials (Center)	96	6.90
Learning Resource Center	41	2.95
Learning Resource Center	17	
Learning and Science Center	1	
Learning Center	10	
Learning Marerials Center	1	
Materials Resource Center	1	
Resource Center	9	
Resource Center and AV	1	
Reading Resource Center	1	
Other	21	1.51
AV Center	1	
Behind the Stacks	1	
Career Ed Media Center	1	
Center	3	
Hall	3	
Large Group (area)	2	
Listening Center	1	
Primary and Intermediate	1	
Projection Room	1	
Reading Enrichment Center	2	
Reading Room	1	
Study Center	2	
Visual Aid Room	1	
Total All Names	1392	100.00

TABLE 11.2

Name of Space by Span

SPAN	SIZE	LIBRARY A VARIATION	%	LIBRARY - A	%	LIBRARY - MEDIA CENTE	%	LIBRARY IMC	%	TOTAL LIBRARY	%	MEDIA CENTE AND VARIATIONS	%	IMC	%	LRC	%	OTHER	%	TOTAL
1	1	52	74.29	1	1.43	4	5.71	1	1.43	58	82,86	9	12.86	0	0.00	1	1.43	2	2.86	70
	2	38	58.46	0	0.00	3	4.62	0	0.00	41	63.08	17	26.15	4	6.15	2	3.08	1	1.54	65
	3	49	74.24	1	1.52	0	0.00	0	0.00	50	75.76	7	10.61	6	9.09	3	4.55	0	0.00	66
	4	47	74.60	1	1.59	3	4.76	0	0.00	51	80.95	9	14.29	0	0.00	3	4.76	0	0.00	63
	5	37	74.00	0	0.00	2	4.00	0	0.00	39	78.00	5	10.00	3	6.00	0	0.00	3	6.00	50
	6	52	55.91	1	1.08	9	9.68	0	0.00	62	66.67	19	20.43	9	9.68	2	2.15	1	1.08	93
	7	118	38.06	0	0.00	21	6.77	1	.32	140	45.16	120	38.71	32	10.32	15	4.84	3	.97	310
		393	34.81	4	0.56	42	5.86	2	.28	441	61,51	186	25,94	54	7.53	26	3.63	10	1.39	717
2	1	87	75.65	3	2.61	4	3.48	1	.87	95	82.61	13	11.30	2	1.74	0	0.00	5	4.35	115
	2	61	73.49	0	0.00	5	6.02	0	0.00	66	79.52	14	16.87	2	2.41	1	1.20	0	0.00	83
	3	57	67.06	4	4.71	5	5.88	1	1.18	67	79.82	11	12.94	6	7.06	1	1.18	0	0.00	85
	4	42	72.41	1	1.72	4	6.90	0	0.00	47	81.03	7	12.07	3	5.17	0	0.00	1	1.72	58
	5	21	63.64	0	0.00	3	9.09	0	0.00	24	72.73	6	18.18	2	6.06	1	3.03	0	0.00	33
	6	39	67.24	3	5.17	4	6.90	0	0.00	46	79.31	6	12.07	3	5.17	3	5.17	0	0.00	58
	7	41	37.96	1	0.93	9	8,33	0	0.00	51	47.22	32	29.63	20	18.52	4	3.70	1	.93	108
		348	64.44	12	2.22		6.30	2	0.37	396	73.33	91	16.85	38	7.04	10	1.85	6	1.11	540
3	1	8	53.33	00	0.00	2	13.33	0	0.00	10	66.67	2	13.33	0	0.00	0	0.00	3	20.00	15
	2	6	66.67	00	0.00	1	11.11	0	0.00	7	77.78	1	11.11	1	11.11	0	0.00	0	0.00	9
	3	4	66.67	00	0.00	1	16.67	0	0.00	5	83.33	1	16.67	0	0.00	0	0.00	0	0.00	6
	4	5	83.33	00	0.00	0	0.00	0	0.00	5	83.33	1	16.67	0	0.00	0	0.00	0[a]	0.00	6
	5	1	100.00	00	0.00	0	0.00	0	0.00	1	100.00	0	0.00	0	0.00	0	0.00	0	0.00	1
	6	1	100.00	00	0.00	0	0.00	0	0.00	1	100.00	0	0.00	0	0.00	0	0.00	0	0.00	1
	7	4	80.00	00	0.00	0	0.00	0	0.00	4	80.00	0	0.00	1	20.00	0	0.00	0	0.00	5
		29	67.44	00	0.00	4	9.30	0	0.00	33	76.74	5	11.63	2	4.65	0	0.00	3	6.98	43[a]
4	1	2	40.00	0	0.00	0	0.00	0	0.00	2	40.00	2	40.00	0	0.00	0	0.00	0	0.00	0
	2	8	80.00	0	0.00	0	0.00	0	0.00	8	80.00	2	20.00	0	0.00	0	0.00	0	0.00	0
	3	9	69.23	0	0.00	1	7.69	0	0.00	10	76.92	1	7.69	1	7.69	1	7.69	0	0.00	0
	4	11	84.62	0	0.00	0	0.00	0	0.00	11	84.62	2	15.38	0	0.00	0	0.00	0	0.00	0
	5	3	60.00	0	0.00	1	20.00	0	0.00	4	80.00	0	0.00	0	0.00	1	20.00	0	0.00	0
	6	1	25.00	0	0.00	0	0.00	0	0.00	1	25.00	1	25.00	1	25.00	1	25.00	0	0.00	0
	7	5	55.56	0	0.00	0	0.00	0	0.00	5	55.56	3	33.33	0	0.00	1	11.11	0	0.00	0
		39	66.10	0	0.00	2	3.39	0	0.00	41	69.49	11	18.64	2	3.39	4	6.78	1	1.69	59
5	1	18	75.00	1	4.17	2	8.33	0	0.00	21	87.50	2	8.33	0	0.00	1	4,17	0	0.00	24
	2	5	62.50	0	0.00	0	0.00	0	0.00	5	62.50	3	37,50	0	0.00	0	0.00	0	0.00	8
	3	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
	4	1	100.00	0	0.00	0	0.00	0	0.00	1	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0
	6	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
	7	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
		24	72.73	1	3.03	2	6.06	0	0.00	27	81.82	5	15,15	0	0.00	1	3,03	21	1,51	33
Grand Total		833	59.84	17	1.22	84	6.03	4	0.29	938	67.39	296	21.26	96	6.90	41	2,95	42	3.02	1392

[a] Off 1 from machine total because machine printed non name.

TABLE 12
Number of Hours the Center Is Open Per Week by Span

CODE SPAN	COUNT	0 HOURS OR NO CENTER	%	1-19 HOURS	%	20-29 HOURS	%	30-39 HOURS	%	40 OR MORE	%	AVERAGE HOURS OPEN	AVERAGE HOURS OMITTING 0
1	843	117	13.9	67	8.0	55	6.5	326	38.7	287	33.0	28.8	33.4
2	550	11	2.0	13	2.4	13	2.4	147	26.7	366	66.5	37.7	38.4
3	55	11	20.0	6	10.9	3	5.5	10	19.9	25	45.4	27.5	34.3
4	60	2	3.3	3	5	3	5	18	30	34	56.6	34.9	36.1
5	34	1	2.9	1	2.9	2	5.9	11	32.2	19	55.8	35.3	36.3
TOTAL	1,542	142	9.2	90	5.8	76	4.9	512	33.2	722	46.8	32.3	35.5

TABLE 12.1
Number of Hours Center Is Open Per Week by Size

SIZE	COUNT	O HOURS	%	1-19	%	20-29	%	30-39	%	40+	%	TOTAL HOURS OPEN	AVERAGE HOURS	AVERAGE HOURS -0
1	252	21	8.3	23	9.1	18	7.1	86	34.1	104	41.3	7851	31.2	34.0
2	199	23	11.6	8	4.0	9	4.5	56	28.1	103	51.8	6463	32.5	36.7
3	190	18	9.5	10	5.3	11	5.8	55	28.9	96	50.5	6152	32.4	35.8
4	159	23	14.5	6	3.8	3	1.9	41	25.8	86	54.1	5063	31.8	37.2
5	108	20	18.5	8	7.4	5	4.6	24	22.2	51	47.2	3073	28.5	34.9
6	176	22	12.5	11	6.3	15	8.5	59	33.5	69	39.2	5350	30.4	34.7
7	458	15	3.3	24	5.2	15	3.3	191	41.7	213	46.5	15804	34.5	35.7
TOTAL	1542	142	9.2	90	5.8	76	4.9	512	33.2	722	46.8	49756	32.3	35.5

TABLE 13
Centers Open Before and After School by Span

SPAN CODE	SCHOOLS	CENTERS	BEFORE SCHOOL	% OF TOTAL	% OF CENTERS	AFTER SCHOOL	% OF TOTAL	% OF CENTERS
1	843	728	453	53.7	62.2	473	56.1	65.0
2	550	542	467	84.9	86.2	453	82.4	83.6
3	55	44	35	63.6	79.5	35	63.6	79.5
4	60	58	43	71.7	74.1	51	85	87.9
5	34	33	22	64.7	66.7	24	70.6	72.7
TOTAL	1,542	1,403	1,020	66.1	72.7	1,036	67.2	73.8

TABLE 13.1
Centers Open Before and After School by Size

SIZE CODE	SCHOOLS	CENTERS	BEFORE SCHOOL	% OF TOTAL	% OF CENTERS	AFTER SCHOOL	% OF TOTAL	% OF CENTERS
1	252	231	153	60.7	66.2	154	61.1	66.7
2	199	175	136	68.3	77.7	121	60.8	69.1
3	190	172	142	74.7	82.6	136	71.6	79.1
4	159	139	109	68.6	78.4	97	61.0	69.8
5	108	90	61	56.5	67.8	74	68.5	82.2
6	176	157	112	63.6	71.3	110	62.5	70.1
7	458	439	307	67.0	69.9	344	75.1	78.4
TOTAL	1,542	1,403	1,020	66.1	72.7	1,036	67.2	73.8

TABLE 14
Kinds of Scheduling Provided in Centers by Span

SPAN	SCHOOLS	CENTERS	FORMAL CLASS	% OF SCHOOLS	% OF CENTERS	INFORMAL CLASS	% OF SCHOOLS	% OF CENTERS	SMALL GROUP	% OF SCHOOLS	% OF CENTERS	INDIVIDUAL	% OF SCHOOLS	% OF CENTERS
1	843	728	500	59.3	68.7	587	69.6	80.6	678	80.4	93.1	641	76.0	88.0
2	550	542	112	20.4	20.7	501	91.1	92.4	532	96.7	98.2	520	94.5	95.9
3	55	43	32	58.2	74.4	39	70.9	90.7	43	78.2	100.0	37	67.3	86.2
4	60	58	24	40.0	41.4	51	85.0	87.9	58	96.7	100.0	53	88.3	91.4
5	34	32	19	55.9	59.4	33	97.1	103.1	32	94.1	100.0	31	91.2	96.9
	1542	1403	687	44.6	49.0	1211	78.5	86.3	1343	87.1	95.7	1282	83.1	91.4

TABLE 14.1
Kinds of Scheduling Provided in Centers by Size

SIZE	SCHOOLS	CENTERS	FORMAL CLASS	% OF SCHOOLS	% OF CENTERS	INFORMAL CLASS	% OF SCHOOLS	% OF CENTERS	SMALL GROUPS	% OF SCHOOLS	% OF CENTERS	INDIVIDUAL	% OF SCHOOLS	% OF CENTERS
1	252	231	66	26.2	28.6	198	78.6	85.7	220	87.3	95.2	207	82.1	89.6
2	199	175	67	33.7	38.3	150	75.4	85.7	169	84.9	96.6	158	79.4	90.3
3	190	172	69	36.3	40.1	153	80.5	89.0	165	86.8	95.9	154	81.1	89.5
4	159	139	60	37.7	43.2	116	73.0	83.5	134	84.3	96.4	137	86.2	98.6
5	108	90	42	38.9	46.7	74	68.5	82.2	89	82.4	98.9	80	74.1	88.9
6	176	157	82	46.6	52.2	120	68.2	76.4	150	85.2	95.5	141	80.1	89.8
7	458	439	300	65.5	68.3	400	87.3	91.1	416	90.8	94.8	405	88.4	92.3
TOTAL	1,542	1,403	687	44.6	49.0	1,211	79.5	86.3	1,343	87.1	95.7	1,282	83.1	91.4

TABLE 14.2
Grades for Whom Formally Scheduled Instruction by Provided

NUMBER OF SCHOOLS REPORTING - 1542

NUMBER OF SCHOOLS WITH FORMAL SCHEDULES - 687

NUMBER OF SCHOOLS WITHOUT FORMAL SCHEDULES - 855

GRADES	FORMAL INSTRUCTION	GRADES	FORMAL INSTRUCTION
PK	27	6	385
K	394	7	97
1	450	8	58
2	451	9	50
3	465	10	26
4	460	11	14
5	423	12	12

TABLE 14.3
Grades for Whom Formally Scheduled Instruction Is Provided
Grade Span 1 (K-6) by Size

	SIZE 1			SIZE 2			SIZE 3			SIZE 4			SIZE 5			SIZE 6			SIZE 7			TOTAL		
GRADES	SCHOOLS REPORTING	GRADES SERVED	% SERVED	SCHOOLS REPORTING	GRADES SERVED	% SERVED	SCHOOLS REPORTING	GRADES SERVED	% SERVED	SCHOOLS REPORTING	GRADES SERVED	% SERVED	SCHOOLS REPORTING	GRADES SERVED	% SERVED	SCHOOLS REPORTING	GRADES SERVED	% SERVED	SCHOOLS REPORTING	GRADES SERVED	% SERVED	SCHOOLS REPORTING	GRADES SERVED	% SERVED
PK	2	0	0.0	0	0	0.0	0	0	0.0	5	3	60.0	1	0	0.0	7	4	57.1	24	17	70.8	39	20	51.3
K	28	21	75.0	26	18	69.2	30	26	86.7	31	23	74.2	28	25	89.3	51	40	78.4	229	205	89.5	423	358	84.6
1	30	25	83.3	29	25	86.2	31	29	93.5	35	30	85.7	30	28	93.3	58	51	87.9	232	218	94.0	445	406	91.2
2	30	29	96.7	30	27	90.0	30	28	93.3	35	31	88.6	30	28	93.3	60	53	88.3	235	217	92.3	448	410	92.7
3	28	28	100.0	33	30	90.9	33	31	93.9	33	32	97.0	30	30	100.0	60	51	85.0	235	217	92.3	452	419	92.7
4	31	31	100.0	32	32	100.0	35	33	94.3	33	32	97.0	27	26	96.3	55	50	90.9	233	209	89.7	446	403	90.4
5	31	29	93.5	31	29	93.5	31	30	96.8	26	26	100.0	21	20	95.2	53	45	84.9	226	189	83.6	419	368	87.8
6	30	26	86.7	28	26	92.9	27	26	96.3	26	26	100.0	17	15	88.2	42	31	73.8	218	176	80.7	388	326	84.0
7	3	0	0.0	1	1	100.0	3	2	66.7	0	0	0.0	10	1	100.0	0	0	0.0	0	0	0.0	8	4	50.0
8	3	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	3	0	0.0

TABLE 14.4
Grades for Whom Formally Scheduled Instruction Is Provided K-8 by Size

	SIZE 1			SIZE 2			SIZE 3			SIZE 4			SIZE 5			SIZE 6			SIZE 7			TOTAL		
GRADES	SCHOOLS REPORTING	GRADES SERVED	% SERVED	SCHOOLS REPORTING	GRADES SERVED	% SERVED	SCHOOLS REPORTING	GRADES SERVED	% SERVED	SCHOOLS REPORTING	GRADES SERVED	% SERVED	SCHOOLS REPORTING	GRADES SERVED	% SERVED	SCHOOLS REPORTING	GRADES SERVED	% SERVED	SCHOOLS REPORTING	GRADES SERVED	% SERVED	SCHOOLS REPORTING	GRADES SERVED	% SERVED
PK	1	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	1	1	100.0	0	0		2	1	50.0	4	2	50.0
K	7	7	100.0	5	4	80.0	5	3	60.0	4	3	75.0	1	1	100.0	0	0		4	2	50.0	26	20	76.9
1	8	8	100.0	6	5	83.3	6	5	83.3	4	3	75.0	1	1	100.0	1	1	100.0	4	2	50.0	30	25	83.3
2	8	8	100.0	6	5	83.3	6	4	66.7	3	2	66.7	1	1	100.0	1	1	100.0	4	3	75.0	29	24	82.8
3	8	8	100.0	6	5	83.3	5	4	80.0	3	3	100.0	1	1	100.0	1	1	100.0	5	4	80.0	29	26	89.7
4	8	8	100.0	6	6	100.0	5	4	80.0	3	2	66.7	1	1	100.0	1	1	100.0	5	5	100.0	[illegible]	27	93.1
5	8	8	100.0	6	6	100.0	6	3	50.0	3	2	66.7	0	0		1	1	100.0	5	5	100.0	29	25	86.2
6	7	6	85.7	6	6	100.0	6	1	16.7	3	2	66.7	0	0		1	1	100.0	5	5	100.0	28	21	75.0
7	6	2	33.3	4	2	50.0	6	1	16.7	4	1	25.0	1	1	100.0	1	0	0.0	5	3	60.0	27	10	37.0
8	5	1	20.0	4	2	50.0	6	1	16.7	4	1	25.0	1	1	100.0	1	0	0.0	5	2	40.0	26	8	30.8
9	0	0		0	0		0	0		2	1	25.0	0	0		0	0		4	2	50.0	6	3	50.0
Total Centers Reporting	8			6			6			4			1			1			5					

TABLE 15
Schools Reporting That Individual Students May and Are Able to Use Audiovisual Equipment

SPAN	SCHOOLS IN SPAN	SCHOOLS REPORTING	PERCENT OF SCHOOLS
1	843	759	90.04
2	550	481	87.45
3	55	44	80.00
4	60	52	86.67
5	34	31	91.18
TOTAL	1,542	1,367	88.65

TABLE 16
Location of Materials in School by Span

		PRINT						NONPRINT					
SPAN	COUNT	CLASS-ROOM	%	CENTER	%	OTHER	%	CLASS-ROOM	%	CENTER	%	OTHER	%
1	843	133	15.78	681	80.78	28	3.32	259	30.72	473	56.11	109	12.93
2	550	17	3.09	522	94.91	10	1.82	182	32.09	298	54.18	70	12.73
3	55	16	29.09	38	69.09	1	1.82	18	32.73	26	47.27	10	18.18
4	60	4	6.67	56	93.33	0		24	40.00	31	51.67	5	8.33
5	34	4	11.76	30	88.24	0		11	32.35	17	50.00	6	17.65
TOTAL	1,542	174	11.28	1,327	86.06	39	2.53	494	32.04	845	54.88	200	12.97

TABLE 16.1
Location of Materials by Span with Detail by Size

			PRINT						NONPRINT					
SPAN	SIZE	COUNT	CLASSROOM	%	CENTER	%	OTHER	%	CLASSROOM	%	CENTER	%	OTHER	%
1	1	87	26	29.89	60	68.97	1	1.15	39	44.83	32	36.78	15	17.24
	2	84	21	25.00	60	71.43	3	3.57	25	29.76	43	51.19	15	17.86
	3	82	24	29.27	57	69.51	1	1.22	34	41.46	34	41.46	14	17.07
	4	76	11	14.47	60	78.95	5	6.58	34	44.74	30	39.47	11	14.47
	5	68	14	20.59	49	72.06	5	7.35	35	51.47	24	25.29	10	14.71
	6	113	21	18.58	89	78.76	3	2.65	42	37.17	49	43.36	23	20.35
	7	333	16	4.80	306	91.89	10	3.00	50	15.02	261	78.38	21	6.31
		843	133	15.78	681	80.78	28	3.32	259	30.72	473	56.11	109	12.93
2	1	117	7	5.98	104	88.89	5	4.27	42	35.90	47	40.17	27	23.08
	2	84	3	3.57	80	95.24	1	1.19	36	42.86	43	51.19	5	5.95
	3	87	2	2.30	84	96.55	1	1.15	35	40.23	43	49.43	10	11.49
	4	59	1	1.69	57	96.61	1	1.69	23	38.98	32	54.24	4	6.78
	5	34	1	2.94	33	97.06	0	0.00	10	29.41	21	61.76	3	8.82
	6	58	0	0.00	58	100.00	0	0.00	17	29.31	31	53.45	10	17.24
	7	111	3	2.70	106	95.50	2	1.80	19	17.12	81	72.97	11	9.91
		550	17	3.09	522	94.91	10	1.82	182	33.09	298	54.18	70	12.73
3	1	18	5	27.78	13	72.22	0	0.00	5	27.78	11	61.11	2	11.11
	2	12	4	33.33	8	66.67	0	0.00	4	33.33	4	33.33	4	33.33
	3	8	3	37.50	4	50.00	1	12.50	3	37.50	3	37.50	1	12.50
	4	10	4	40.00	6	60.00	0	0.00	5	50.00	5	50.00	0	0.00
	5	1	0	0.00	1	100.00	0	0.00	0	0.00	0	0.00	1	100.00
	6	1	0	0.00	1	100.00	0	0.00	0	0.00	0	0.00	1	100.00
	7	5	0	0.00	5	100.00	0	0.00	1	20.00	3	60.00	1	20.00
		55	16	29.09	38	69.09	1	1.82	18	32.73	26	47.27	10	18.18
4	1	5	0	0.00	5	100.00	0	0.00	1	20.00	3	60.00	1	20.00
	2	11	3	27.27	8	72.73	0	0.00	7	63.64	3	27.27	1	9.09
	3	13	0	0.00	13	100.00	0	0.00	4	30.77	7	53.85	2	15.38
	4	13	0	0.00	13	100.00	0	0.00	6	46.15	7	53.85	0	0.00
	5	5	0	0.00	5	100.00	0	0.00	2	40.00	3	60.00	0	0.00
	6	4	0	0.00	4	100.00	0	0.00	0	0.00	3	75.00	1	25.00
	7	9	1	11.11	8	88.89	0	0.00	4	44.44	5	55.56	0	0.00
		60	4	6.67	56	93.33	0	0.00	24	40.00	31	51.67	5	8.33
5	1	25	3	12.00	22	88.00	0	0.00	10	40.00	11	44.00	4	16.00
	2	8	1	12.50	7	87.50	0	0.00	1	12.50	6	75.00	1	12.50
	3	0	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
	4	1	0	0.00	1	100.00	0	0.00	0	0.00	0	0.00	1	100.00
	5	0	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
	6	0	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
	7	0	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
		34	4	11.76	30	88.24	0	0.00	11	32.35	17	50.00	6	17.65
		1,542	174	11.28	1,327	86.06	39	2.53	494	32.04	845	54.88	200	12.97

TABLE 16.2
Location of Materials in Schools by Size

		PRINT						NONPRINT					
SIZE	COUNT	CLASSROOM	%	CENTER	%	OTHER	%	CLASSROOM	%	CENTER	%	OTHER	%
1	252	41	16.27	242	96.03	6	2.38	97	38.49	104	41.27	49	19.44
2	199	32	16.08	163	81.91	4	2.01	73	36.68	99	49.75	26	13.06
3	190	29	15.26	158	83.16	3	1.58	76	40.00	87	45.79	27	14.21
4	159	16	10.06	137	86.16	6	3.77	68	42.77	74	46.54	16	10.06
5	108	15	13.89	88	81.48	5	4.63	47	43.52	48	44.44	14	12.96
6	176	21	11.93	152	86.36	3	1.70	59	33.52	83	47.16	35	19.89
7	458	20	4.37	425	92.79	12	2.62	74	16.16	350	76.42	33	7.21
TOTAL	1,542	174	11.28	1,327	86.06	39	2.53	494	32.04	845	54.88	200	12.97

TABLE 16.3
Location of Materials by Size with Detail by Span

			PRINT						NONPRINT					
SIZE	SPAN	COUNT	CLASSROOM	%	CENTER	%	OTHER	%	CLASSROOM	%	CENTER	%	OTHER	%
1	1	87	26	29.89	60	68.97	1	1.15	39	44.83	32	36.78	15	17.24
	2	117	7	5.98	104	88.89	5	4.27	42	35.90	47	40.17	27	23.08
	3	18	5	27.78	13	72.22	0	0.00	5	27.78	11	61.11	2	11.11
	4	5	0	0.00	5	100.00	0	0.00	1	20.00	3	60.00	1	20.00
	5	25	3	12.00	22	88.00	0	0.00	10	40.00	11	44.00	4	16.00
TOTAL		252	41	16.27	242	96.03	6	2.38	97	38.49	104	41.27	49	19.44
2	1	84	21	25.00	60	71.43	3	3.57	25	29.76	43	51.19	15	17.86
	2	84	3	3.57	80	95.24	1	1.19	36	42.86	43	51.19	5	5.95
	3	12	4	33.33	8	66.67	0	0.00	4	33.33	4	33.33	4	33.33
	4	11	3	27.27	8	72.73	0	0.00	7	63.64	3	27.27	1	9.09
	5	8	1	12.50	7	87.50	0	0.00	1	12.50	6	75.00	1	12.50
TOTAL		199	32	16.08	163	81.91	4	2.01	73	36.68	99	49.75	26	13.06
3	1	82	24	29.27	57	69.51	1	1.22	34	41.46	34	41.46	14	17.07
	2	87	2	2.30	84	96.55	1	1.15	35	40.23	43	49.43	10	11.49
	3	8	3	37.50	4	50.00	1	12.50	3	37.50	3	37.50	1	12.50
	4	13	0	0.00	13	100.00	0	0.00	4	30.77	7	53.85	2	15.38
	5	0	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
TOTAL		190	29	15.26	158	83.16	3	1.58	76	40.00	87	45.79	27	14.21
4	1	76	11	14.47	60	78.95	5	6.58	34	44.74	30	39.47	11	14.47
	2	59	1	1.69	57	96.61	1	1.69	23	38.98	32	54.24	4	6.78
	3	10	4	40.00	6	60.00	0	0.00	5	50.00	5	50.00	0	0.00
	4	13	0	0.00	13	100.00	0	0.00	6	46.15	7	53.85	0	0.00
	5	1	0	0.00	1	100.00	0	0.00	0	0.00	0	0.00	1	100.00
TOTAL		159	16	10.06	137	86.16	6	3.77	68	42.77	74	46.54	16	10.06
5	1	68	14	20.59	49	72.06	6	7.35	35	51.47	24	25.29	10	14.71
	2	34	1	2.94	33	97.06	0	0.00	10	29.41	21	61.76	3	8.82
	3	1	0	0.00	1	100.00	0	0.00	0	0.00	0	0.00	1	100.00
	4	5	0	0.00	5	100.00	0	0.00	2	40.00	3	60.00	0	0.00
	5	0	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
TOTAL		108	15	13.89	88	81.48	5	4.63	47	43.52	48	44.44	14	12.96
6	1	113	21	18.58	89	78.76	3	2.56	42	37.17	49	43.36	23	20.35
	2	58	0	0.00	58	100.00	0	0.00	17	29.31	31	53.45	10	17.24
	3	1	0	0.00	1	100.00	0	0.00	0	0.00	0	0.00	1	100.00
	4	4	0	0.00	4	100.00	0	0.00	0	0.00	3	75.00	1	25.00
	5	0	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
TOTAL		178	21	11.98	152	86.36	3	1.70	59	33.52	83	47.16	35	19.72
7	1	333	16	4.80	306	91.89	10	3.00	50	15.02	261	78.38	21	6.31
	2	111	3	2.70	106	95.50	2	1.80	19	17.12	81	72.97	11	9.91
	3	5	0	0.00	5	100.00	0	0.00	1	20.00	3	60.00	1	20.00
	4	9	1	11.11	8	88.89	0	0.00	4	44.44	5	55.56	0	0.00
	5	0	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
TOTAL		458	20	4.37	425	92.79	12	2.62	74	16.16	350	76.42	33	7.21
GRAND TOTAL		1,542	174	11.28	1,327	86.06	39	2.53	494	32.04	845	54.88	200	12.97

TABLE 17

Classification of Print and Audiovisual Materials by Span

SPAN	COUNT	UNCLASSED				DEWEY				OTHER			
		PRINT	% OF SCHOOLS	AV	%	PRINT	%	AV	%	PRINT	%	AV	%
1	843	78	9.35	267	31.67	718	85.17	331	39.26	49	5.81	241	28.59
2	550[a]	3	0.55	171	31.09	541	98.36	242	44.00	7	1.27	137	24.91
3	55	9	16.36	25	45.45	43	78.18	21	38.18	3	5.45	9	16.36
4	60	0	0.00	20	33.33	59	98.33	20	33.33	1	1.67	20	33.33
5	34	0	0.00	10	29.41	34	100.00	7	20.59	0	0.00	17	50.00
TOTAL	1,542	90	5.84	493	31.97	1,395	90.47	621	40.27	31	3.89	424	27.50

[a] At least one school reported more than one method of classification.

TABLE 17.1
Classification by Span with Detail by Size

			UNCLASSED				DEWEY				ACCESSION				OTHER			
SPAN	SIZE	COUNT	PRINT	% OF SCHOOLS	AV	% OF SCHOOLS	PRINT	%	AV	%	PRINT	%	AV	%	PRINT	%	AV	%
1	1	87	9	10.34	46	52.87	73	83.91	15	17.24	3	3.45	15	17.24	2	2.30	9	10.34
	2	84	12	14.29	52	61.90	69	82.14	17	20.24	1	1.19	11	13.10	2	2.38	3	3.57
	3	82	19	23.17	34	41.46	58	70.73	22	26.83	0	0.00	8	9.76	5	6.10	17	20.73
	4	76	8	10.53	33	43.42	61	80.26	23	30.26	5	6.58	15	19.74	2	2.63	5	6.58
	5	68	12	17.65	28	41.18	49	72.06	21	30.88	3	4.41	3	4.41	4	5.88	17	25.00
	6	113	13	11.50	28	24.78	83	73.45	25	22.12	10	8.85	36	31.86	8	7.08	23	20.35
	7	333	5	1.50	46	13.81	325	97.60	208	62.46	0	0.00	64	19.22	4	1.20	15	4.50
		843	78	9.25	267	31.67	718	85.17	331	39.26	22	2.61	152	18.03	27	3.20	89	10.56
2	1	117	1	0.85	60	51.28	112	95.73	27	23.08	3	2.56	14	11.97	0	0.00	14	11.97
	2	84	1	1.19	32	38.10	83	98.81	32	38.10	1	1.19	12	14.29	0	0.00	8	9.52
	3	87	0	0.00	28	32.18	87	100.00	42	48.28	1	1.15	10	11.49	0	0.00	8	9.20
	4	59	0	0.00	24	40.68	58	98.31	22	37.29	1	1.69	8	13.56	0	0.00	5	8.47
	5	34	0	0.00	7	20.59	33	97.06	19	55.88	0	0.00	3	8.82	1	2.94	5	14.71
	6	58	0	0.00	10	17.24	58	100.00	30	51.72	0	0.00	10	17.24	0	0.00	8	13.79
	7	111	1	0.90	10	9.01	110	99.10	70	63.06	0	0.00	22	19.82	0	0.00	10	9.01
		550	3	0.55	171	31.09	541	98.36	242	44.00	6	1.09	79	14.36	1	0.18	58	10.55
3	1	18	2	11.11	11	61.11	15	83.33	4	22.22	0	0.00	3	16.67	1	5.56	0	0.00
	2	12	2	16.67	5	41.67	9	75.00	4	33.33	1	8.33	1	8.33	0	0.00	2	16.67
	3	8	2	25.00	5	62.50	5	62.50	2	25.00	1	12.50	0	0.00	0	0.00	1	12.50
	4	10	3	30.00	4	40.00	7	70.00	6	60.00	0	0.00	0	0.00	0	0.00	0	0.00
	5	1	0	0.00	0	0.00	1	100.00	1	100.00	0	0.00	0	0.00	0	0.00	0	0.00
	6	1	0	0.00	[illegible]	0.00	1	100.00	0	0.00	0	0.00	0	0.00	0	0.00	1	100.00
	7	5	0	0.00	0	0.00	5	100.00	4	80.00	0	0.00	1	20.00	0	0.00	0	0.00
		55	9	16.36	25	45.45	43	78.18	21	38.18	2	3.64	5	9.09	1	1.82	4	7.27
4	1	5	0	0.00	2	40.00	5	100.00	1	20.00	0	0.00	2	40.00	0	0.00	0	0.00
	2	11	0	0.00	6	54.55	10	90.91	2	18.18	1	9.09	1	9.09	0	0.00	2	18.18
	3	13	0	0.00	5	38.46	13	100.00	6	46.15	0	0.00	1	7.69	0	0.00	1	7.69
	4	13	0	0.00	4	30.77	13	100.00	3	23.08	0	0.00	5	38.46	0	0.00	1	7.69
	5	5	0	0.00	1	20.00	5	100.00	2	40.00	0	0.00	2	40.00	0	0.00	0	0.00
	6	4	0	0.00	0	0.00	4	100.00	2	50.00	0	0.00	2	50.00	0	0.00	0	0.00
	7	9	0	0.00	2	22.22	9	100.00	1	44.44	0	0.00	2	22.22	0	0.00	1	11.11
		60	0	0.00	20	33.33	59	98.33	20	33.33	1	1.67	15	25.00	0	0.00	5	8.33
5	1	25	0	0.00	9	36.00	25	100.00	4	16.00	0	0.00	12	48.00	0	0.00	0	0.00
	2	8	0	0.00	1	12.50	8	100.00	3	37.50	0	0.00	4	50.00	0	0.00	0	0.00
	3	0	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
	4	1	0	0.00	0	0.00	1	100.00	0	0.00	0	0.00	1	100.00	0	0.00	0	0.00
	5	0	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
	6	0	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
	7	0	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
		34	0	0.00	10	29.41	34	100.00	7	20.59	0	0.00	17	50.00	0	0.00	0	0.00
		1542	90	5.84	493	31.97	1395	90.47	621	40.27	31	2.01	268	17.38	29	1.88	156	10.12

TABLE 17.2
Classification of Print and Audiovisual Materials by Size

		UNCLASSED				DEWEY				ACCESSION				OTHER			
SIZE	COUNT	PRINT	% OF SCHOOLS	AV	% OF SCHOOLS	PRINT	% OF SCHOOLS	AV	% OF SCHOOLS	PRINT	% OF SCHOOLS	AV	% OF SCHOOLS	PRINT	% OF SCHOOLS	AV	% OF SCHOOLS
1	252	12	4.76	128	50.79	230	91.27	51	20.24	6	2.38	46	18.25	3	.95	23	9.13
2	199	15	7.54	96	48.24	179	89.95	58	29.15	4	2.01	29	14.57	2	1.01	15	7.54
3	190	21	11.05	72	37.89	163	85.79	72	37.89	2	1.05	19	10.00	5	2.63	27	14.21
4	159	11	6.92	65	40.88	140	88.05	54	33.96	6	3.77	29	18.24	2	1.26	11	6.92
5	108	12	11.11	36	33.33	88	81.48	43	39.81	3	2.78	8	7.41	5	4.63	22	20.37
6	176	13	7.39	38	21.59	146	82.95	57	32.39	10	5.86	48	27.27	8	4.55	33	18.75
7	458	6	1.31	58	12.66	449	98.03	286	62.45			11	2.40	4	0.87	30	6.55
OTAL	1,542	90	5.84	493	31.97	1,395	90.47	621	40.27	31	2.01	268	17.38	29	1.88	156	10.12

TABLE 17.3

Classification by Size with Detail by Span

			UNCLASSED				DEWEY				ACCESSION				OTHER			
SIZE	SPAN	COUNT	PRINT	%	AV	%	PRINT	%	AV	%	PRINT	%	AV	%	PRINT	%	AV	%
1	1	87	9	10.34	46	52.87	73	83.91	15	17.24	3	3.45	15	17.24	2	2.30	9	10.34
	2	117	1	0.85	60	51.28	112	95.73	27	23.08	3	2.56	14	11.97	0	0.00	14	11.97
	3	18	2	11.11	11	61.11	15	83.33	4	22.22	0	0.00	3	16.67	1	5.56	0	0.00
	4	5	0	0.00	2	40.00	5	100.00	1	20.00	0	0.00	2	40.00	0	0.00	0	0.00
	5	25	0	0.00	9	36.00	25	100.00	4	16.00	0	0.00	12	48.00	0	0.00	0	0.00
TOTAL		252	12	4.76	128	50.79	230	91.27	51	20.24	6	2.38	46	18.25	3	.95	23	9.13
2	1	84	12	14.29	52	61.90	69	82.14	17	20.24	1	1.19	11	13.10	2	2.38	3	3.57
	2	84	1	1.19	32	38.10	83	98.81	32	100.00	1	1.19	12	14.29	0	0.00	8	9.52
	3	12	2	16.67	5	41.67	9	75.00	4	33.33	1	8.33	1	8.33	0	0.00	2	16.67
	4	11	0	0.00	6	54.55	10	90.91	2	18.18	1	9.09	1	9.09	0	0.00	2	18.18
	5	8	0	0.00	1	12.50	8	100.00	3	37.50	0	0.00	4	50.00	0	0.00	0	0.00
TOTAL		199	15	7.54	96	48.24	179	89.95	58	29.15	4	2.01	29	14.57	2	1.01	15	7.54
3	1	82	19	23.17	34	41.46	58	70.73	22	26.83	0	0.00	8	9.76	5	6.10	17	20.73
	2	87	0	0.00	28	32.18	87	100.00	42	48.28	1	1.15	10	11.49	0	0.00	8	9.20
	3	8	2	25.00	5	62.50	5	62.50	2	25.00	1	12.50	0	0.00	0	0.00	1	12.50
	4	13	0	0.00	5	38.46	13	100.00	6	46.12	0	0.00	1	7.69	0	0.00	1	7.69
	5	0	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
TOTAL		190	21	11.05	72	37.89	163	85.79	72	37.89	2	1.05	19	10.00	5	2.63	27	14.21
4	1	76	8	10.53	33	43.42	61	80.26	23	30.26	5	6.58	15	19.74	2	2.63	5	6.58
	2	59	0	0.00	24	40.58	58	98.31	22	37.29	1	1.69	8	13.56	0	0.00	5	8.47
	3	10	3	30.00	4	40.00	7	70.00	6	60.00	0	0.00	0	0.00	0	0.00	0	0.00
	4	13	0	0.00	4	30.77	13	100.00	3	23.08	0	0.00	5	38.46	0	0.00	1	7.69
	5	1	0	0.00	0	0.00	1	100.00	0	0.00	0	0.00	1	100.00	0	0.00	0	0.00
TOTAL		159	11	6.92	65	40.88	140	88.05	54	33.96	6	3.77	29	18.24	2	1.26	11	6.92
5	1	68	12	17.65	28	41.18	49	72.06	21	30.88	3	4.41	3	4.41	4	5.88	17	25.00
	2	34	0	0.00	7	20.59	33	97.06	19	55.88	0	0.00	3	8.82	1	2.94	5	14.71
	3	1	0	0.00	0	0.00	1	100.00	1	100.00	0	0.00	0	0.00	0	0.00	0	0.00
	4	5	0	0.00	1	20.00	5	100.00	2	40.00	0	0.00	2	40.00	0	0.00	0	0.00
	5	0	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
TOTAL		108	12	11.11	36	33.33	88	81.48	43	39.81	3	2.78	8	7.41	5	4.63	22	20.37
6	1	113	13	11.50	28	24.78	83	73.45	25	22.12	10	8.85	36	31.86	8	7.08	23	20.35
	2	58	0	0.00	10	17.24	58	100.00	30	51.72	0	0.00	10	17.24	0	0.00	8	13.79
	3	1	0	0.00	0	0.00	1	100.00	0	0.00	0	0.00	0	0.00	0	0.00	1	100.00
	4	4	0	0.00	0	0.00	4	100.00	2	50.00	0	0.00	2	50.00	0	0.00	0	0.00
	5	0	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
TOTAL		176	13	7.39	38	21.59	146	82.95	57	32.39	10	5.86	48	27.27	8	4.55	33	18.75
7	1	333	5	1.50	46	13.81	325	97.60	208	62.46	0	0.00	64	19.22	4	1.20	15	4.50
	2	111	1	0.90	10	9.01	110	99.10	70	63.0	0	0.00	22	19.82	0	0.00	10	9.01
	3	5	0	0.00	0	0.00	5	100.00	4	80.00	0	0.00	1	20.00	0	0.00	0	0.00
	4	9	0	0.00	2	22.22	9	100.00	4	44.44	0	0.00	2	22.22	0	0.00	1	11.11
TOTAL		458	6	1.31	58	12.66	449	98.03	286	62.45	0	0.00	89	19.43	4	0.87	30	6.55
GRAND TOTAL		1,542	90	5.84	493	31.97	1,395	90.47	621	40.27	31	2.01	2.68	17.38	29	1.88	156	10.12

TABLE 18
Cataloging of Print and Audiovisual Material by Span

			UNCATALOGED				DICTIONARY (ALPHA. CARD CAT.)				OTHER CARD CATALOG				PRINTED LIST				OTHER			
SPAN	COUNT	NO. OF CENTERS	PRINT	%	NON-PRINT	%	PRINT	%	NON-PRINT	%	PRINT	%	NON-PRINT	%	PRINT	%	NON-PRINT	%	PRINT	%	NON-PRINT	%
1	843	728	73	8.66	239	28.35	673	79.83	345	40.93	47	5.58	46	5.46	21	2.49	143	16.96	29	3.44	62	7.35
2	550	542	5	.91	145	26.36	515	93.64	272	49.45	18	3.27	33	6.00	4	0.72	61	11.09	7	1.27	36	6.36
3	55	43	8	14.54	19	34.55	39	70.91	20	36.36	4	7.27	0	0.00	1	1.82	11	20.00	3	5.45	4	7.27
4	60	58	1	1.67	17	28.33	52	86.67	17	28.33	4	6.67	1	1.67	1	1.67	18	30.00	2	3.33	6	10.00
5	34	32	0	0.00	10	29.41	33	97.06	11	32.35	0	0.00	4	8.82	0	0.00	4	11.76	1	2.94	5	1.47
T	1,542	1,403	87	5.64	430	27.89	1,312	85.08	665	43.13	73	4.73	84	5.45	27	1.75	237	15.37	42	2.72	113	7.33

TABLE 18.1
Cataloging by Span with Detail by Size

			UNCATALOGED				DICTIONARY				OTHER CARD CATALOG				LIST				OTHER			
SPAN	SIZE	COUNT	PRINT	%	NON PRINT	%	PRINT	%	NON PRINT	%	PRINT	%	NON PRINT	%	PRINT	%	NON PRINT	%	PRINT	%	NON PRINT	%
1	1	87	9	10.34	44	50.57	66	75.86	18	20.69	6	6.90	4	4.60	3	3.45	13	14.94	3	3.45	6	6.90
	2	84	13	15.48	48	57.14	55	65.48	17	20.24	11	13.10	4	4.76	2	2.38	8	9.52	3	3.57	5	5.95
	3	82	15	18.29	29	35.37	56	69.29	24	29.27	4	4.88	2	2.44	4	4.88	20	24.39	3	3.66	5	6.10
	4	76	5	6.58	24	31.58	51	57.11	17	22.37	10	13.16	9	11.88	3	3.95	17	22.37	7	9.21	8	10.53
	5	68	15	22.06	25	36.76	43	63.24	22	32.35	3	4.41	4	5.88	5	7.35	11	16.18	2	2.94	5	7.35
	6	113	13	11.50	25	22.12	83	73.45	27	23.89	5	4.42	3	2.65	3	2.65	39	34.51	9	7.96	19	16.81
	7	333	3	0.90	44	13.21	319	95.80	220	66.07	8	2.40	20	6.01	1	0.30	35	10.51	2	0.60	14	4.20
TOTAL		843	73	8.66	239	28.35	673	79.83	345	40.93	47	5.58	46	5.46	21	2.49	143	16.96	29	3.48	62	7.35
2	1	117	3	2.56	43	36.75	101	86.32	35	29.91	9	7.69	5	4.27	1	0.85	22	18.80	1	0.85	11	9.40
	2	84	1	1.19	33	39.29	81	96.43	32	38.10	1	1.19	6	8.14	1	1.19	9	10.71	0	0.00	4	4.76
	3	87	0	0.00	25	28.74	82	94.25	42	48.28	3	3.45	4	4.60	0	0.00	8	9.20	2	2.30	6	6.90
	4	59	0	0.00	17	28.81	57	96.61	28	47.46	1	1.69	4	6.78	1	1.69	7	11.86	0	0.00	3	5.08
	5	34	0	0.00	6	17.65	30	88.24	20	58.82	2	5.88	3	8.82	0	0.00	3	8.82	2	5.88	2	5.88
	6	58	0	0.00	11	18.97	56	96.55	31	53.45	0	0.00	4	6.90	0	0.00	7	12.07	2	3.49	6	8.62
	7	111	1	0.90	10	9.01	108	97.30	84	75.68	2	1.80	7	6.31	1	0.90	5	4.50	0	0.00	4	3.60
TOTAL		550	5	0.91	145	26.36	515	93.64	272	49.45	18	3.27	33	6.00	4	0.72	61	11.09	7	1.27	36	6.36
3	1	18	3	16.67	10	55.56	11	61.11	5	27.78	3	16.67	0	0.00	0	0.00	1	5.56	1	5.56	1	5.56
	2	12	2	16.67	3	25.00	10	83.33	4	33.33	0	0.00	0	0.00	0	0.00	3	25.00	0	0.00	2	16.67
	3	8	1	12.50	3	37.50	4	50.00	2	25.00	1	12.50	0	0.00	1	12.50	3	37.50	1	12.50	0	0.00
	4	10	2	20.00	3	30.00	7	70.00	6	60.00	0	0.00	0	0.00	0	0.00	1	10.00	1	10.00	0	0.00
	5	1	0	0.00	0	0.00	1	100.00	0	0.00	0	0.00	0	0.00	0	0.00	1	100.00	0	0.00	0	0.00
	6	1	0	0.00	0	0.00	1	100.00	0	0.00	0	0.00	0	0.00	0	0.00	1	100.00	0	0.00	0	0.00
	7	5	0	0.00	0	0.00	5	100.00	3	60.00	0	0.00	0	0.00	0	0.00	1	20.00	0	0.00	1	20.00
TOTAL		55	8	14.55	19	34.55	39	70.91	20	36.36	4	7.27	0	0.00	1	1.82	11	20.00	3	5.45	4	7.27
4	1	5	0	0.00	1	20.00	5	100.00	2	40.00	0	0.00	0	0.00	0	0.00	2	40.00	0	0.00	0	0.00
	2	11	1	9.09	4	36.36	7	63.64	1	9.09	2	18.18	0	0.00	1	9.09	4	36.36	1	9.09	1	9.09
	3	13	0	0.00	4	30.77	11	84.62	3	23.08	1	7.69	0	0.00	0	0.00	4	30.77	0	0.00	1	7.69
	4	13	0	0.00	4	30.77	12	92.31	5	38.46	1	7.69	1	7.69	0	0.00	2	15.38	0	0.00	2	15.38
	5	5	0	0.00	1	20.00	5	100.00	1	20.00	0	0.00	0	0.00	0	0.00	3	60.00	0	0.00	0	0.00
	6	4	0	0.00	1	25.00	4	100.00	1	25.00	0	0.00	0	0.00	0	0.00	2	50.00	0	0.00	0	0.00
	7	9	0	0.00	2	22.22	8	88.89	4	44.44	0	0.00	0	0.00	0	0.00	1	11.11	1	11.11	2	22.22
TOTAL		60	1	1.67	17	28.33	52	86.67	17	28.33	4	6.67	1	1.67	1	1.67	18	30.00	2	3.33	6	10.00
5	1	25	0	0.00	8	32.00	24	96.00	7	28.00	0	0.00	4	16.00	0	0.00	4	16.00	1	4.00	2	8.00
	2	8	0	0.00	2	25.00	8	100.00	4	50.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	2	25.00
	3	0	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
	4	1	0	0.00	0	0.00	1	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	1	100.00
	5	0	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
	6	0	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
	7	0	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
TOTAL		34	0	0.00	10	29.41	33	97.06	11	32.35	0	0.00	4	11.76	0	0.00	4	11.76	1	2.94	5	14.71
GRAND TOTAL		1,542	87	5.64	430	27.89	1,312	85.08	665	43.13	73	4.73	84	5.45	27	1.75	237	15.37	42	2.72	113	7.33

TABLE 18.2
Cataloging of Print and Audiovisual Materials by Size

		UNCATALOGED				DICTIONARY				OTHER CARD CATALOG				LIST				OTHER			
SIZE	COUNT	PRINT	%	NON PRINT	%	PRINT	%	NON PRINT	%	PRINT	%	NON PRINT	%	PRINT	%	NON PRINT	%	PRINT	%	NON PRIN.	%
1	252	15	5.95	106	42.06	207	82.14	67	26.59	18	7.14	13	5.16	4	1.59	42	16.67	6	2.38	20	7.94
2	199	17	8.54	90	42.23	161	80.90	58	29.15	14	7.04	10	5.03	4	2.01	24	12.06	4	2.01	14	7.04
3	190	16	8.42	61	32.11	153	80.53	71	37.37	9	4.74	6	3.16	5	2.63	35	18.42	6	3.16	12	6.32
4	159	7	4.40	48	30.19	128	80.50	56	35.22	12	7.55	14	8.81	4	2.52	27	16.98	8	5.03	14	8.81
5	108	15	13.89	32	29.63	79	73.15	43	39.81	5	4.63	7	6.48	5	4.63	18	16.67	4	3.70	7	6.48
6	176	13	7.39	37	21.02	144	81.82	59	33.52	5	2.84	7	3.98	3	1.70	49	27.84	11	6.25	25	14.20
7	458	4	0.87	56	12.23	440	96.07	311	67.90	10	2.18	27	5.90	2	0.44	42	9.17	3	0.66	21	4.59
TOTAL	1,542	87	5.64	430	27.89	1,312	85.08	665	43.13	73	4.73	84	5.45	27	1.75	237	15.37	42	2.72	113	7.33

TABLE 18.3
Cataloging by Size with Detail by Span

			UNCATALOGED				DICTIONARY				OTHER CARD CATALOG				LIST				OTHER			
SPAN	SIZE	COUNT	PRINT	%	NON PRINT	%	PRINT	%	NON PRINT	%	PRINT	%	NON PRINT	%	PRINT	%	NON PRINT	%	PRINT	%	NON PRINT	%
1	1	87	9	10.34	44	50.57	66	75.86	18	20.69	6	6.90	4	4.60	3	3.45	13	14.94	3	3.45	6	6.90
	2	117	3	2.56	43	36.75	101	86.32	35	29.91	9	7.69	5	4.27	1	0.85	22	18.80	1	0.85	11	9.40
	3	18	3	16.67	10	55.56	11	61.11	5	27.78	3	16.67	0	0.00	0	0.00	1	5.56	1	5.56	1	5.56
	4	5	0	0.00	1	20.00	5	100.00	2	40.00	0	0.00	0	0.00	0	0.00	2	40.00	0	0.00	0	0.00
	5	25	0	0.00	8	32.00	24	96.00	7	28.00	0	0.00	4	16.00	0	0.00	4	16.00	1	4.00	2	8.00
TOTAL		252	15	5.95	106	42.06	207	82.14	67	26.59	18	7.14	13	5.16	4	1.59	42	16.67	6	2.38	20	7.94
2	1	84	13	15.48	48	57.14	55	65.48	17	20.24	11	13.10	4	4.76	2	2.38	8	9.52	3	3.57	5	5.95
	2	84	1	1.19	33	39.29	81	96.43	32	38.10	1	1.19	6	8.14	1	1.19	9	10.71	0	0.00	4	4.76
	3	12	2	16.67	3	25.00	10	83.33	4	33.33	0	0.00	0	0.00	0	0.00	3	25.00	0	0.00	2	16.67
	4	11	1	9.09	4	36.36	7	63.64	1	9.09	2	18.18	0	0.00	1	9.09	4	36.36	1	9.09	1	9.09
	5	8	0	0.00	2	25.00	8	100.00	4	50.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	2	25.00
TOTAL		199	17	8.54	90	45.23	161	80.90	58	29.15	14	7.04	10	5.03	4	2.01	24	12.06	4	2.01	14	7.04
3	1	82	15	18.29	29	35.37	56	69.29	24	29.27	4	4.88	2	2.44	4	4.88	20	24.39	3	3.66	5	6.10
	2	87	0	0.00	25	28.74	82	94.25	42	48.28	3	3.45	4	4.60	0	0.00	8	9.20	2	2.30	6	6.90
	3	8	1	12.50	3	37.50	4	50.00	2	25.00	1	12.50	0	0.00	1	12.50	3	37.50	1	12.50	0	0.00
	4	13	0	0.00	4	30.77	11	84.62	3	23.08	1	7.69	0	0.00	0	0.00	4	30.77	0	0.00	1	7.69
	5	0	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
TOTAL		190	16	8.42	61	32.11	153	80.53	71	37.37	9	4.74	6	3.16	5	2.63	35	18.42	6	3.16	12	6.32
4	1	76	5	6.58	24	31.58	51	57.11	17	22.37	10	13.16	9	11.84	3	3.95	17	22.37	7	9.21	8	10.53
	2	59	0	0.00	17	28.81	57	96.61	28	47.46	1	1.69	4	6.78	1	1.69	7	11.86	0	0.00	3	5.08
	3	10	2	20.00	3	30.00	7	70.00	6	60.00	0	0.00	0	0.00	0	0.00	1	10.00	1	10.00	0	0.00
	4	13	0	0.00	4	30.77	12	92.31	5	38.46	1	7.69	1	7.69	0	0.00	2	15.38	0	0.00	2	15.38
	5	1	0	0.00	0	0.00	1	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	1	100.00
TOTAL		159	7	4.40	48	30.19	128	80.50	56	35.22	12	7.55	14	8.81	4	2.52	27	16.98	8	5.03	14	8.81
5	1	68	15	22.06	25	36.76	43	63.24	22	32.35	3	4.41	4	5.88	5	7.35	11	16.18	2	2.94	5	7.35
	2	34	0	0.00	6	17.65	30	88.24	20	58.82	2	5.88	3	8.82	0	0.00	3	8.82	2	5.88	2	5.88
	3	1	0	0.00	0	0.00	1	100.00	0	0.00	0	0.00	0	0.00	0	0.00	1	100.00	0	00.0	0	0.00
	4	5	0	0.00	1	20.00	5	100.00	1	20.00	0	0.00	0	0.00	0	0.00	3	60.00	0	0.00	0	0.00
	5	0	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
TOTAL		108	15	13.89	32	29.63	79	73.15	43	39.81	5	4.63	7	6.48	5	4.63	18	16.67	4	3.70	7	6.48
6	1	113	13	11.50	25	22.12	83	73.45	27	23.89	5	4.42	3	2.65	3	2.65	39	34.51	9	7.96	19	16.81
	2	58	0	0.00	11	18.97	56	96.55	31	53.45	0	0.00	4	6.90	0	0.00	7	12.07	2	3.49	6	8.62
	3	1	0	0.00	0	0.00	1	100.00	0	0.00	0	0.00	0	0.00	0	0.00	1	100.00	0	0.00	0	0.00
	4	4	0	0.00	1	25.00	4	100.00	1	25.00	0	0.00	0	0.00	0	0.00	2	50.00	0	0.00	0	0.00
	5	0	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
TOTAL		176	13	7.39	37	21.02	144	81.82	59	33.52	5	2.84	7	3.98	3	1.70	49	27.84	11	6.25	25	14.20
7	1	333	3	0.90	44	13.21	319	95.80	220	66.07	8	2.40	20	6.01	1	0.30	35	10.51	2	0.60	14	4.20
	2	111	1	0.90	10	9.01	108	97.30	84	75.68	2	1.80	7	6.31	1	0.90	5	4.50	0	0.00	4	3.60
	3	5	0	0.00	0	0.00	5	100.00	3	60.00	0	0.00	0	0.00	0	0.00	1	20.00	0	0.00	1	20.00
	4	9	0	0.00	2	22.22	8	88.89	4	44.44	0	0.00	0	0.00	0	0.00	1	11.11	1	11.11	2	22.22
	5	0	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
TOTAL		458	4	0.87	56	12.23	440	96.07	311	67.90	10	2.18	27	5.90	2	0.44	42	9.17	3	0.66	21	4.59
GRAND TOTAL		1,542	87	5.64	430	27.89	1,312	85.08	665	43.13	73	4.73	84	5.45	27	1.75	237	15.37	42	2.72	113	7.33

TABLE 19
Estimated Percent of Media Centers Using Dewey Decimal Classification and Providing a Card Catalog by Span

SPAN	NUMBER OF CENTERS	PERCENT OF CENTERS CLASSIFYING				PERCENT USING CARD CATALOG							
						DICTIONARY				OTHER			
		PRINT		AV		PRINT		AV		PRINT		AV	
		NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%
1	728	718	98.63	331	45.47	673	92.45	345	47.39	47	6.47	46	6.32
2	542	541	99.82	242	44.65	515	95.02	272	50.18	18	3.32	33	6.09
3	43	43	100.00	21	48.84	39	90.70	20	46.51	4	9.30	0	0.00
4	58[a]	59[a]	100.00	20	34.48	52	89.66	17	29.31	4	6.90	1	1.72
5	32[a]	34[a]	100.00	7	21.88	33	100.00	11	34.38	0	0.00	4	12.50
TOTAL	1403	1395	99.43	621	44.26	1312	93.51	665	47.40	73	5.20	84	5.99

[a] Three schools either neglected to report center or classify a noncentral collection.

TABLE 20
Location of Other Materials

SCHOOL

SPAN	COUNT	FILMS	FILMLOOPS	MAPS	FRAMED PICTURES	REPLICAS	ART OBJECTS	MODELS	KITS	REALIA	DIORAMAS	GAMES	PROGRAMMED INSTRUCTION MATERIAL	MICROFORMS	VIDEOTAPES	DIAL ACCESS	8MM PROJECTORS	8MM FILMLOOP PROJECTORS	CLOSED CIRCUIT TELEVISION	VIDEO CAMERAS	DRY MOUNT PRESS	SLIDE CAMERA	TRANSPARENCY PRODUCTION	PRIMARY TYPEWRITER	OTHER
1	843	46	275	770	307	339	117	344	585	150	59	758	543	44	246	42	228	424	108	190	352	186	589	734	28
2	550	54	294	494	209	355	163	336	394	120	44	420	305	237	403	26	318	369	111	411	249	288	417	287	16
3	55	5	21	45	16	28	7	27	35	7	2	50	35	5	26	1	16	27	7	20	20	9	35	46	0
4	60	4	24	53	19	33	11	33	40	13	7	45	35	6	36	1	19	31	11	28	25	17	49	22	2
5	34	0	8	30	12	24	8	23	20	7	3	28	21	12	23	1	15	14	9	25	11	15	24	26	0
TOTAL	1,542	109	622	1,392	563	779	306	763	1,074	297	115	1,301	939	304	734	71	596	865	246	674	657	515	1,114	1,115	46

DISTRICT

1	843	148	350	379	240	464	138	422	451	182	48	352	385	159	514	66	391	413	150	596	474	468	574	374	8
2	550	64	168	245	121	215	80	202	234	89	37	243	207	130	266	22	210	215	59	295	252	211	294	300	9
3	55	4	16	30	13	27	10	28	25	6	5	30	23	15	30	1	18	14	2	32	17	17	27	23	1
4	60	4	22	29	12	22	8	24	27	7	5	19	20	16	37	2	26	27	8	40	30	29	38	40	1
5	34	0	6	14	6	16	2	12	10	5	2	16	11	8	12	1	11	11	6	17	6	9	18	14	1
TOTAL	1,542	220	562	697	392	744	238	688	747	289	97	660	646	328	859	92	656	680	225	980	779	734	951	751	20

AEA

1	843	826	530	206	369	419	220	443	671	217	78	334	357	388	425	77	160	186	51	192	542	248	590	128	10
2	550	542	351	141	245	266	129	278	440	104	64	273	261	254	283	54	105	102	31	132	345	164	415	96	5
3	55	55	39	18	22	32	17	32	46	17	7	25	28	26	26	0	10	15	0	10	42	18	43	8	0
4	60	59	39	17	26	29	16	32	45	8	7	28	25	24	29	5	9	7	1	9	4	18	48	6	2
5	34	31	18	13	17	17	10	20	28	8	8	17	21	19	18	3	7	8	2	8	27	11	28	4	0
TOTAL	1,542	1,513	977	395	679	763	392	805	1,230	354	164	677	692	711	781	139	291	318	85	351	978	459	1,124	242	17

TABLE 21
Media-Related Functions Performed by Various School Personnel In K-6 Schools

	MEDIA SPECIALIST		MEDIA AIDE		MEDIA TECHNICIAN		PRINCIPAL		SCHOOL SECRETARY		CLASSROOM TEACHER		OTHER	
SERVICE	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%
Checks out materials	312	37.01	515	61.09	4	.47	29	3.44	93	11.03	258	30.60	96	11.39
Schedules equipment	184	21.83	289	34.28	7	.83	130	15.42	108	12.81	319	37.84	35	4.15
Teaches encyclopedia	346	41.04	106	12.57	1	.12	5	.59	7	.83	699	82.92	12	1.42
Teaches other references	396	46.98	113	13.40	1	.12	3	.36	6	.71	608	72.12	13	1.54
Teaches card catalog	441	52.31	197	23.37	3	.36	9	1.07	13	1.54	376	44.60	29	3.44
Teaches teachers equipment	325	38.55	154	18.27	27	3.20	328	38.90	36	4.27	133	15.78	67	7.95
Teaches students equipment	318	37.72	199	23.61	5	.59	82	9.73	15	1.78	554	65.72	22	2.61
Media guidance	408	48.40	227	26.93	2	.24	31	3.68	16	1.90	511	60.62	33	3.91
Selects print media	486	57.65	135	16.01	1	.12	272	32.27	11	1.30	464	55.04	32	3.80
Selects nonprint media	413	48.99	95	11.27	8	.95	362	42.94	8	.95	459	54.45	38	4.51
Develops bibliographies	350	41.52	112	13.29	0	.00	42	4.98	2	.24	322	38.20	41	4.86
Publicizes new media	458	54.33	309	36.65	9	1.07	333	39.50	41	4.86	40	4.74	25	2.97
Orients new teachers	415	49.23	216	25.62	8	.95	363	43.06	37	4.39	86	10.20	50	5.93
Helps teachers integrate	426	50.53	157	18.62	7	.83	287	34.05	9	1.07	77	9.13	34	4.03
Orders media for preview	393	46.62	70	8.30	7	.83	352	41.76	18	2.14	198	23.49	57	6.76
Serves on curriculum comm.	273	32.38	22	2.61	3	.36	415	49.23	5	.59	563	66.79	17	2.02
Obtains media from AEAMC	306	36.30	216	25.62	5	.59	164	19.45	148	17.56	530	62.88	27	3.20
Inventories media	406	48.16	443	52.55	8	.95	155	18.39	118	13.20	124	14.71	28	3.32
Inventories equipment	310	36.77	342	40.57	18	2.14	252	29.89	172	20.40	135	16.01	36	4.27
Provides blank tapes	253	30.01	224	26.57	18	2.14	285	33.81	147	17.44	51	6.05	7	.83
Provides lamp replacements	206	24.44	179	21.23	19	2.25	295	34.99	192	22.78	22	2.61	89	10.56
Repairs books	307	36.42	495	58.72	4	.47	25	2.97	79	9.37	91	10.79	75	8.90
Withdraws	491	58.24	225	26.69	2	.24	165	19.57	31	3.68	145	17.20	35	4.15

TABLE 21.1
Media-Related Functions Performed by Various School Personnel in 7-12 Schools

	MEDIA SPECIALIST		MEDIA AIDE		MEDIA TECHNICIAN		PRINCIPAL		SCHOOL SECRETARY		CLASSROOM TEACHER		OTHER	
SERVICE	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%
Checks out materials	438	79.64	263	47.82	14	2.55	18	3.27	20	3.64	59	10.73	125	22.73
Schedules equipment	273	49.64	151	27.45	34	6.18	49	8.91	42	7.66	131	23.82	42	7.66
Teaches encyclopedia	393	71.45	60	10.91	1	.18	1	.18	0	0.00	378	68.73	6	1.09
Teaches other reference	452	82.18	54	9.82	3	.55	2	.36	0	0.00	340	61.82	5	.91
Teaches card catalog	471	85.64	73	13.27	3	.55	1	.18	0	0.00	266	48.36	5	.91
Teaches teachers equipment	321	58.36	83	15.09	44	8.00	102	18.55	12	2.18	87	15.82	53	9.66
Teaches students equipment	337	61.27	102	18.55	37	6.73	39	7.09	6	1.09	235	42.73	44	8.00
Media guidance	450	81.82	69	12.55	4	.73	3	.55	1	.18	285	51.82	18	3.27
Selects print media	522	94.91	23	4.18	3	.55	62	11.27	2	.36	227	41.27	19	3.45
Selects nonprint media	419	76.18	22	4.00	10	1.82	96	17.45	2	.36	302	54.91	31	5.66
Develops bibliographies	414	75.27	41	7.45	3	.55	5	.91	0	0.00	141	25.64	8	1.45
Publicizes new media	509	92.55	87	15.82	12	2.18	76	13.82	3	.55	18	3.27	14	2.55
Orients new teachers	485	88.18	72	13.09	20	3.64	98	17.82	4	.73	32	5.82	24	4.36
Helps teachers integrate	449	81.64	34	6.18	14	2.55	70	12.73	2	.36	34	6.18	17	3.09
Orders media for preview	391	71.09	26	4.73	14	2.55	70	12.73	5	.91	171	31.09	35	6.36
Serves on curriculum comm.	227	41.27	5	.91	8	1.45	177	32.18	2	.36	264	48.00	20	3.64
Obtains media from AEAMC	392	71.27	79	14.36	21	3.82	53	9.64	57	10.36	296	53.82	23	4.18
Inventories media	486	88.36	181	32.91	27	4.91	37	6.73	21	3.82	62	11.27	24	4.36
Inventories equipment	330	60.00	131	23.82	43	7.82	78	14.18	37	6.73	64	11.66	45	8.18
Provides blank tapes	277	50.36	105	19.09	37	6.73	90	16.36	62	11.27	43	7.82	47	8.55
Provides lamp replacements	211	38.36	107	19.45	43	7.82	100	18.18	95	17.27	41	7.45	61	11.09
Repairs books	419	76.18	198	36.00	10	1.82	5	.91	19	3.45	29	5.27	46	8.36
Withdraws	516	93.81	55	10.00	8	1.45	37	6.73	5	.91	60	10.91	10	1.82

TABLE 21.2
K-6 Schools Reporting a Higher Percentage of Services Performed by Classroom Teachers Than by Media Specialists

	SCHOOLS REPORTING MEDIA SPECIALISTS		SCHOOLS REPORTING CLASSROOM TEACHERS	
SERVICE	NO.	%	NO.	%
Scheduling equipment for use by teacher	184	21.83	319	37.84
Teaching students use of encyclopedia	346	41.04	699	82.92
Teaching use of references other than encyclopedia	396	46.98	608	74.12
Teaching students to use equipment	318	37.72	554	65.72
Offering media guidance	408	48.40	511	60.62
Selecting nonprint media for purchase	413	48.99	459	54.45
Serving on curriculum committees	273	32.38	563	66.79
Obtaining media from AEAMC	306	36.30	530	62.88

The Status of Selected Aspects of Media Services
in Iowa Elementary Schools

A Proposal
Presented to
the Iowa Educational Media Association
through its Professional Development Committee

By the IEMA Elementary Section
Ad Hoc Committee
to Develop a Proposal

The Proposal

Introduction

During the past fifteen years a commitment to provide media services to elementary schools in the state of Iowa has been slowly growing. Several occurrences provide evidence of that growth:

1. In 1969, the Iowa Department of Public Instruction published a handbook (1) to provide guidelines for the development of elementary K-6 media centers.
2. DPI statistics for 1965-66 (2) showed a total of 145 media specialists employed at the elementary level. The 1969-70 statistics (3) show a total of 215, a growth of 70 for the five-year period.
3. Two Iowa communities won first-place national awards for their school library media programs.
    a. Iowa City (4) won the 1969 Encyclopaedia Britannica School Library Award. At that time the award was given for noteworthy progress toward improvement of elementary school libraries.
    b. Cedar Rapids (5) won the 1974 School Library Program of the Year Award sponsored jointly by Britannica and the American Association of School Librarians. Criterion for this award is excellence of library media programs in elementary schools.
4. Media centers have been incorporated in the design and building of new elementary attendance centers.

5. Classroom space has been freed or remodeled space has been provided for media centers.
6. Print-oriented collections have evolved into multi-media collections in existing school libraries and the media center concept has been established.

In a research project carried on as part of a master's degree program in the Department of Library Science, University of Northern Iowa, (6) Florence Thordsen was able to identify only 233 media specialists employed at the elementary level in Iowa in 1973-74. Using the enrollment strata employed at the Department of Public Instruction, Thordsen sampled a proportionate number of the 233 media specialists in each stratum by questionnaire. Of interest here are the employment responsibilities of 62 respondents as shown in Table I.

Table 1
Number of Buildings Served by Iowa Elementary Librarians

Number of buildings served	180-499	500-749	750-999	1000-1499	1500-1999	2000-2999	3000-up	Totals
1	2	1	1	2	4	1	29	40
2		2	1	2	1	1	5	12
3			1			1		2
4					1	1	3	5
5					1			1
6								
7							1	1
8							1	1

If the sample of 62 were an exact representation of the total population of 233, there would be 150 media specialists serving one building, 45 serving two buildings, and 38 serving three or more buildings. There are 1,219 elementary attendance centers in the state (7). Thordsen's data suggest that only 424 have the services of a media specialist. Of those 424, 114 have one for one-third or less time. Little data is available about the programs of services and the media collections of these centers. Almost nothing is known about the remaining 795.

There is a need to gather data about the status of elementary media services and collections to support an effort to effect legislation in Iowa requiring that Phase I of Plan for Progress K-6, which call for one professional person for 1-499 pupils, be a requirement. At present, the only provision for elementary school library materials is found in the School Rules of Iowa (8). It reads as follows:

> 3.5(21) Elementary school library materials. Centralized library materials shall be provided in each elementary school system, even though at any given time the bulk of the collection of books and other types of learning materials is actually housed in classrooms. Items such as books, pictures, maps, charts, audio-visual equipment with appropriate slides, films, filmstrips and sound recordings, and museum items shall be included as parts of said materials. The entire collection shall be cataloged and classified according to the Dewey decimal or comparable system and made accessible to teachers and pupils alike. An area shall be provided in each elementary school attendance center for the preparation of learning and instructional materials.

DPI is presently revising portions of the School Rules and the fate of 3.5 (21) is not presently known.

On the other hand, the Code of Iowa (9) itself provides:

> 257.25(9)...each school offering any of grades seven through twelve, except a school which offers grades one through eight as an elementary school shall have:
>
> a. A qualified school media specialist who shall meet the certification and approval standards prescribed by the department of public instruction and adequate media center facilities as hereinafter defined.

It seems reasonable to propose that elementary school children are entitled to media support services comparable to those presently provided for secondary school students. The 1970 White House Conference on Children examined the issue on children's rights (10), finding that "Although children are one of our largest and most vulnerable minority groups, they have no voice in political processes and do not directly participate in lobbies on their own behalf." Adults committed to a belief in the educational advantages of media support services at the building level may need to see themselves as lobbyists on behalf of Iowa children in the matter of building level media services.

The Elementary Section of IEMA has identified itself as a group of adults strongly committed to this belief. At its Fall, 1975, meeting the Elementary Section voted unanimously to develop a research proposal to present to the IEMA Professional Development Committee for consideration for funding. An ad hoc committee was appointed to develop the proposal.

Proposal

The project being proposed will be Phase I of a two-phase program. Its primary purpose will be to gather base-line data to support a sustained effort to effect legislation to require certified media specialists at the elementary school level. The long-range effort to effect legislation will be Phase II.

At the present time, the Elementary Section of IEMA is asking the association through its Professional Development Committee for financial support (see budget section below) to implement Phase I. The group is proposing to survey the 1,219 elementary attendace centers in Iowa to determine the status of building-level media services. The data gathered will be analyzed and compared with the 1969-70 DPI Library Report (3) and with Phae I of Plans for Progress K-6 (1). Selected areas for which statistical information will be sought include:

a. personnel, professional and nonprofessional

b. specific media formats identified as books, magazines, sound and silent filmstrips, disc and tape recordings, projected visuals, study print sets, and kits other than sound filmstrips

c. physical facilities

d. program and services

Procedures, Phase I

1. Analyze selected aspects of the 1969-70 DPI Library Report relevant to this study to determine what was know about elementary school library programs at that time.
2. Identify elementary media specialists or principals as recipients of the survey instrument.
3. Construct a survey instrument to gather data about personnel, materials collections, physical facilities, and services. (January 17, 1976)
4. Print survey instrument (January 26, 1976)
5. Mail survey instrument (February 15, 1976)
6. Mail follow-up reminder (March 1, 1976)
7. Enlarge committee if data has to be analyzed "by hand."

8 Compile, analyze, and interpret the collected data, comparing ing tables and graphs with 69/70 DPI Library Report and *Plans for Progress K-6*.

9. Report results to
    - a. IEMA Board (April 8, 1976, or May 1976, meeting)
    - b. IEMA Elementary Section (April 10, 1976)

Phase II

As Phase I is being completed, Phase II will be designed.

The following may be included:

1. Enlarge committee and involve the entire Elementary Section and other supporters

2. Involve IEMA Legislative Committee (Summer, 1976, Leadership Conference)
3. Involve IEMA Committee on Certification and Standards (Summer, 1976, Leadership Conference)
4. Involve Professional Development Committee
5. Seek cooperation with ISEA
6. Disseminate information to news media
7. Identify demonstration centers with effective programs for visitation
8. Develop a "Speakers' Bureau" and media resources for speakers' use
9. Work to educate and involve administrators
10. Offer "assertiveness" workshops to help section members develop techniques necessary for effective goal implementation
11. Involve the AEAMC's under their rule 1.1(2) which says: "It is the responsibility of the school districts to provide library media centers and adequate professional and support staff in each attendance center.... The area education agency shall supplement, support and encourage the development of, but not supplant, these local centers and services." (11)
12. Develop pressure to change the Code of Iowa to require media specialists at the elementary building level.
13. Develop pressure for adoption of strong DPI rules and regulations for media services at all levels.

DPI Cooperation

A cooperative effort with DPI on gethering data is being explored. There appear to be possibilities along a continuum from a mere provision of mailing labels to a full-fledged research project with data processing services. There is no commitment at this time, but each possibility will be explored at the appropriate time.

Budget for Project

Committee expenses (Telephone calls and postage)	$25.00
Printing of survey and results	$50.00
Envelopes (2000)	$30.00
Postage $312 - 1200 letters at 26¢ each $ 45 - 500 post card follow-ups	$357.00
Total	$462.00

The Status Quo

A number of recent developments suggest that the provision of the services of a media specialist to elementary school children in Iowa is an idea whose time has come. These developments are:

1. The strengthening of the media profession in Iowa by the consolidation of the Iowa School Library Media Association and the Audio Visual Education Association of Iowa as the Iowa Educational Media Association.
2. Development of master's degree programs in library science and educational media at the Regents' institutions.
3. The 1975 ISEA Delegate Assembly (12) passed a resolution stating, "The ESEA shall request that, by action of the state legislature, every elementary school of three hundred students or more should have a certified librarian."
4. The IEMA Elementary Section voted unanimously at the 1975 Spring Conference in Ames to support the resolution and begin an inquiry into the possibilities it suggested. The IEMA supported the spirit of that inquiry.
5. IEMA membership list as of November 15, 1975, shows 180 people with responsibilities at the elementary building level.

6. The IEMA Elementary Section unanimously agreed to develop a project to inquire into the status of the elementary library media specialist and media programs.

7. The IEMA Elementary Section is demonstrating its commitment to communicate and work together by participating in a Round Robin for the sharing of ideas. One round has already been published.

8. The newly formulated NCA approval Standards for elementary school (14) provide the following standards:

   7.12 The school shall provide qualified professional media specialists according to the following ratios:

Enrollment	Number of Media Specialists
Fewer than 400 children:	At least one half-time specialist (professional)
400 children or more:	At least one full-time specialist (professional)

References

1. *Plan for Progress...in the Media Center K-6*. Des Moines: Iowa Department of Public Instruction, 1969.

2. Library Report 1965-1966. Unpublished computer print-out. Des Moines: Iowa Department of Public Instruction, 1966.

3. *School Media Center* (Library) Report 1969-1970. Unpublished computer print-out. Des Moines: Iowa Department of Public Instruction, 1970.

4. "Top EB Library Award Goes to Iowa City Schools," *Library Journal*, 94:1698, April 15, 1969.

5. "Cedar Rapids, Iowa, Wins 1974 Library/Media Award," *Library Journal*, 99:1428, May 15, 1974.

6. Thordsen, Florence W. *Methods Used by Iowa Elementary Librarians in Teaching Library Skills*. Unpublished research paper. Cedar Falls: University of Northern Iowa Department of Library Science, 1975, 9.

7. *Data on Iowa Schools 1973-74*. Des Moines: Iowa Department of Public Instruction, 1975, 19.

8. *Rules of the Department of Public Instruction*. Des Moines: Iowa Department of Public Instruction, 1972, 12.

9. *Code of Iowa 1975*. Vol. I. Des Moines: State of Iowa, 1975, 1211.

10. *White House Conference on Children, Report to the President*. Washington, D.C.: Department of Health, Education, and Welfare, 1971, 347.

11. *Rules for Area Education Agency Media Centers*. Des Moines: Iowa Department of Public Instruction, 1975, 1.

12. Current Resolutions, 75-107. *ISEA Communique*, 12:7, March, 1975.

13. *Elementary Library Media Round Robin Round-up of Ideas*. Des Moines: Iowa Department of Public Instruction, 1975.

14. *Policies and Standards for the Approval of Elementary Schools, 1975-76*. Chicago: North Central Association of Colleges and Schools, 1975, 23.

PRELIMINARY DATA ANALYSIS PROCEDURES

The following procedures are described as though the data will be analyzed by hand. A statistical analyst may be able to suggest more sophisticated measures than those described. Ther services of a programmer will be required to interpret them if a computer is used.

1. Sort returned instruments into categories based on grades included in the school.
   a. Schools with Pre-K-6 or K-6 enrollments. It is assumed that these will comprise the major portion of the elementary schools and they will be analyzed together.

   b. Schools with other elementary enrollment patterns. These will be set aside for individual analysis, and will not be included in the analysis described in the ensuing points.

   c. Schools with 7-9 enrollments.

   d. Schools with 10-12 enrollments.

   e. Schools with other secondary enrollment patterns.

   f. Schools with other elementary-secondary enrollment patterns.

2. Sort the instruments identified in each sub point of 1 above into seven groups according to school district enrollment size. Follow the procedures described in steps 3-16 for each of the seven groups.

3. Tabulate responses 2a, b, c, d, the sum of e and f, g, h, i, j, k, and l (p. 1) in three categories headed "less than," "equal to," and "more than" standards set by Phase I of Plan for Progress, K-6 for all elementary programs. Tabulate above plus m and n in similar categories based on Plan for Progress in the Media Center 7-12 for all secondary programs. Convert number responses to percentages of the total number of attendance centers in the enrollment stratum.

4. Determine the range, the interquartile range, and the median for each survey item listed in step 3 above.

5. Tabulate responses 3a, b, c, the sum of d, e, and f, g, h, i, j, k, l, the sum of m, n, and o, q, r, t and u (p. 2) in three categories headed "less than," "equal to," and "more than" standards set by Phase I of Plan for Progress K-6 for all elementary programs. Follow a similar procedure adding v, w, x and y, using Plan for Progress in the Media Center 7-12 for all secondary programs. Convert number responses to percentages of the total number of attendance centers in the enrollment stratum.

6. Determine the range, the interquartile range, and the median for each survey item listed in step 5 above.

7. The range, the interquartile range, and the median are to be determined for Items 2e, f and Items 3d, e, f, m, n, o, p and s.

8. Tabulate the responses to Items 26a-x (p. 6). Count the number of "yes," "no," responses under each of the three headings. Count the number of "don't know" responses under AEAMC heading.

9. Tabulate the responses to Items 27a-w (p. 7) on a grid. Analyze in narrative form.

10. Determine the variety of responses to each category in Items 18 a, b, and c (p. 7). Tabulate to determine the number of attendance centers fitting each response. Convert numbers to percentages of total number attendance centers in the enrollment stratum.

11. Treat Items 19 and 20 by the same procedure described in Step 10.

12. Develop appropriate grids for tabulating Items 21, 22, 23 and 24. Convert numbers to percentages of total number of attendance centers in the enrollment stratum.

13. Tabulate responses to Items 25a and b (p. 5) in the three categories of "less than," "equal to," and "more than" the materials budget standard set by Phase I of Plan for Progress, K-6 and 7-12. Convert number responses to percentages of total number of attendance centers in the enrollment stratum.

14 Determine the range, the interquartile range, and the median for Items 25a and b (p. 5).

15. For Items 25 c and d (p. 5) determine the range, the interquartile range, and the median.

16. List responses to "other" and "specify" directions in items 3t and u (p. 2), 18d (p. 4), 27c (p. 4), 22c (p. 4), 23d (p. 5), 24g (p. 7), and 26x (p. 6). Develop descriptive analysis in narrative form.

17. Total responses for all enrollment strata in each step above and determine percentages, ranges, interquatile ranges, and medians as indicated.

18. Retaining the groupings of the seven enrollment strata, sort out the instruments with a "yes" response to Item 4.

19. Identify the variety of responses to Item 5 (p. 3) and indicate duplicate responses by tallying. Perform this set of procedures on each of the size groups.

20. Tabulate responses to Item 6 (p. 3) in three categories, "less than," "equal to," and "more than" the standard set by Phase I of Plan for Progress, K-6 and 7-12. This will require individual analysis in relation to enrollment of largest class group assigned to one teacher (Item 28). Convert number responses to percentages of the total number of attendance centers in this subsample.

21. For those attendance centers falling in the "less than" category, add Items 6 and 7 (p. 3) to identify the number of additional centers who can meet the standard by combining formal (Item 6) and informal (Item 7) seating.

22. Tabulate the responses to Item 10 and Items 12, 13, 14, 15, 16 and 17 under "yes" and "no". Convert the numbers to percentages of the total number of attendance centers in this subsample.

23. Identify the variety of responses to Items 8, 9, and 11. Indicate duplicate responses by tallying.

24. Develop tables and graphs where they will enhance the data presentation.

25. Repeat Steps 2 through 24 using the geographical configuration of the fifteen Area Education Agencies.

26. Develop narrative description of study and its results for dissemination.

4500-C58966-8/76

Iowa
a place to grow

STATE OF IOWA • DEPARTMENT OF PUBLIC INSTRUCTION
GRIMES STATE OFFICE BUILDING • DES MOINES, IOWA 50319

ROBERT D. BENTON, Ed.D., STATE SUPERINTENDENT

DATE: September 24, 1976

TO: Public Superintendents

FROM: Dr. Robert D. Benton
State Superintendent of Public Instruction

SUBJECT: Survey of the Status of School Media Services

The Educational Media Section of the Iowa Department of Public Instruction and the Elementary Section of the Iowa Educational Media Association (IEMA) are jointly interested in gathering data concerning the status of media services to school children and faculties at the school level. By using a survey instrument, we hope to gain information about media collections and equipment, physical facilities, budgets and services. The data provided on the survey instrument about an individual school would be included with all other data so that no school could be singled out and identified in the ensuing data analysis. We intend to compare the gathered data with Phase One of Plan for Progress in the Media Center, K-6 published in 1969 and of Plan for Progress in the Media Center, 7-12, published in 1970 by the Department of Public Instruction as "guidelines for development . . . of media centers or libraries in Iowa's schools." We expect to answer such questions as:

1. How close are we to implementing Phase One, the minimal guideline?
2. What would it cost in budget and personnel to implement Phase One on a statewide basis?
3. Are there appropriate intermediate steps to be considered as preliminaries to Phase One?

Using the available data and the answers to these questions, the Educational Media Section will plan revisions of Plan for Progress in the Media Center, K-6 and Plan for Progress in the Media Center, 7-12. The Section will also supply information to Area Education Agency Media Centers. Summary information for comparison purposes will be supplied to all districts. The Elementary Section of IEMA will develop a five year program of education and consciousness-raising which they hope will culminate in legislative action favoring the continued development of building level media services in elementary schools.

We are, therefore, mailing questionnaires to your principals asking their cooperation and that of your school level librarians or media specialists in completing these forms and returning them to the Department by October 15, 1976. We hope you will encourage them to do so. Thank you.

Sincerely yours,

Robert D. Benton, Ed. D.
State Superintendent of Public Instruction

RDB/mea

4500-C58967-8/76

STATE OF IOWA • DEPARTMENT OF PUBLIC INSTRUCTION
GRIMES STATE OFFICE BUILDING • DES MOINES, IOWA 50319
ROBERT D. BENTON, Ed.D., STATE SUPERINTENDENT

Iowa
a place to grow

DATE: September 24, 1976

TO: Public School Principals

FROM: Dr. Robert D. Benton
State Superintendent of Public Instruction

SUBJECT: Survey of the Status of School Media Services

The Educational Media Section of the Iowa Department of Public Instruction and the Elementary Section of the Iowa Educational Media Association (IEMA) are jointly interested in gathering data concerning the status of media services to school children and faculties at the school level. By using a survey instrument, we hope to gain information about media collections and equipment, physical facilities, budgets and services. The data provided on the survey instrument about an individual school would be included with all other data so that no school could be singled out and identified in the ensuing data analysis. We intend to compare the gathered data with Phase One of Plan for Progress in the Media Center, K-6, published in 1969 and of Plan for Progress in the Media Center, 7-12, published in 1970 by the Department of Public Instruction as "guidelines for development . . . of media centers or libraries in Iowa's schools." We expect to answer such questions as:

1. How close are we to implementing Phase One, the minimal guideline?
2. What would it cost in budget and personnel to implement Phase One on a statewide basis?
3. Are there appropriate intermediate steps to be considered as preliminaries to Phase One?

Using the available data and the answers to these questions, the Educational Media Section will plan revisions of Plan for Progress in the Media Center, K-6 and Plan for Progress in the Media Center 7-12. The Section will also supply information to Area Education Agency Media Centers. Summary information for comparison purposes will be supplied to all districts. The Elementary Section of IEMA will develop a five year program of education and consciousness-raising which they hope will culminate in legislative action favoring the continued development of building level media services in elementary schools.

We believe most of this questionnaire should be completed by the librarian or media specialist, if one is available, with assistance from the principal. In the absence of such a person we ask the principal to complete the form. We would appreciate your returning the survey instrument with your responses and annotations in the enclosed addressed envelope to Betty Jo Buckingham, Consultant, Educational Media Section, Department of Public Instruction, Grimes State Office Building, Des Moines, Iowa 50319 by October 15, 1976. We are most grateful for your assistance, and we thank you for participating in this important project.

Sincerely yours,

Robert D. Benton, Ed. D.
State Superintendent of Public Instruction

RDB/mea
Enc.

SURVEY OF THE STATUS OF SCHOOL MEDIA SERVICES

Instructions and Definitions

Please read the following instructions and definitions carefully before completing the survey instrument.

INSTRUCTIONS:

1. The survey instrument should be filled out with information relevant to one individual school.

2. Give all information as of September 30, 1976, except that inventory figures from the 1975-76 school year may be used where desired.

3. Return the completed instrument by October 15, 1976 in the enclosed addressed envelope to Betty Jo Buckingham, Consultant, Educational Media Section, Department of Public Instruction, Grimes State Office Building, Des Moines, Iowa 50319. Do not return the cover letter nor this page.

DEFINITIONS:

1. School - a division of a school organization under the direction of a principal or head teacher; it is distinguished from a school building which may house more than one school.

2. Media center - an area in a school where a full range of information sources, associated equipment, and services from a media staff are accessible to students and faculty; for the purposes of this survey the terms media center, library, instructional material center, learning resource center, etc. are synonymous.

3. Media - printed and audiovisual forms of communication excluding text and workbook materials and also excluding the technological and electronic equipment used to display media for users. Does include, for example, library-type books, magazines, filmstrips, and records. In this study the terms "print media" and "audiovisual media" will be used when it is necessary to differentiate the two areas.

4. Media specialist - professional person who administers the program of the media center; in this study the terms media specialist and librarian are synonymous and refer to a certificated person with endorsement #34 (30 hours of course work in an approved library science program at an institution of higher education) or to a person certificated as a teacher with a formal library science minor resulting in teacher-librarian approval status, #86.

5. Media aide - a person employed as a noncertificated person who performs clerical and secretarial tasks as a member of the media staff; assists as needed in the acquisition, maintenance, inventory, production, distribution, and utilization of media and equipment.

6. Media technician - person with technical skills in such specialized areas as cataloging and processing, graphics production and display, photographic production, and operation and maintenance of audiovisual and television equipment.

7. Full-time equivalent (FTE) - used in this study to designate the status of a person considered to be a full-time employee of one school; may be expressed numerically as "1.0". The status of a person in relation to the school responding to the study who is not a full-time employee of that school may be expressed numerically to the nearest tenth. Thus the status of a person employed by the school for 3/5 time would be expressed as "0.6".

State of Iowa
DEPARTMENT OF PUBLIC INSTRUCTION
Educational Media Section
Grimes State Office Building
Des Moines, Iowa 50319

LIB-1

DUE DATE:
October 15, 1976

SURVEY OF THE STATUS OF SCHOOL MEDIA SERVICE

①

(1-10) 1. ☐☐ ☐☐☐☐ ■☐☐☐ ____________________
Code School Name

2. Indicate the number of media items in each category which are considered a permanent part of the school's materials. If it is necessary to estimate, put check mark in estimated column.

					Est.
(11-16)	a.	Library type books by title, not counting duplicate copies	2a.	________	_____
(17-22)	b.	Library type books counting duplicate copies	b.	________	_____
(23-28)	c.	Magazine titles subscribed to for use by students	c.	________	_____
(29-34)	d.	Newspaper titles subscribed to for use by students	d.	________	_____
(35-40)	e.	Individual silent filmstrips	e.	________	_____
(41-46)	f.	Sound filmstrips defined as one filmstrip with cassette tape or phonograph record narration regardless of grouping or packaging	f.	________	_____
(47-52)	g.	Sound recordings including phonograph records, reel-to-reel tapes, and cassette tapes but not including narrations to sound filmstrips	g.	________	_____
(53-58)	h.	Study print sets defined as commercially produced sets of curriculum oriented pictorial materials	h.	________	_____
(59-64)	i.	Globes	i.	________	_____
(65-70)	j.	Art prints defined as commercial reproductions of art works	j.	________	_____
(71-76)	k.	Professional books provided as resource material for teachers	k.	________	_____
② (11-16)	l.	Professional magazine titles subscribed to as resource materials for teachers	l.	________	_____
(17-22)	m.	Transparencies	m.	________	_____
(23-28)	n.	Slides	n.	________	_____

3. Indicate the number of equipment items in each category which are considered a permanent part of the school inventory. Leave blank if no information.

(29-31) a. 16mm projectors 3a. ____________

(32-34) b. 2 x 2 slide projectors b. ____________

(35-37) c. 2 x 2 slide viewers c. ____________

(38-40) d. filmstrip projectors for filmstrips only d. ____________

(41-43) e. combination filmstrip and slide projectors e. ____________

(44-46) f. automatic advance sound filmstrip projectors f. ____________

(47-49) g. filmstrip viewers g. ____________

(50-52) h. overhead projectors h. ____________

(53-55) i. opaque projectors i. ____________

(56-58) j. television monitors j. ____________

(59-61) k. micro-projectors (microscope projectors) k. ____________

(62-64) l. record players l. ____________

(65-67) m. reel-to-reel tape recorders m. ____________

(68-70) n. cassette tape recorders n. ____________

(71-73) o. cassette tape players (playback only) o. ____________

(74-76) p. projection carts p. ____________

③

(11-13) q. listening stations defined as junction box with two or more headsets q. ____________

(14-16) r. permanently mounted projection screens r. ____________

(17-19) s. portable projection screens s. ____________

(20-22) t. copy machines t. ____________
specify type ____________________

(23-25) u. duplicating machines u. ____________
specify type ____________________

(26) v. video tape recorders v. ____________

(27) w. wireless microphones w. ____________

(28) x. microform readers x. ____________

(29) y. microform reader printer y. ____________

(30) 4. Does the school have a physical space designated as a media center?

4. yes ☐ No ☐

(31-50) 5. If the answer to number 4 is "yes," what is this space called? Please use words, not initials. ______________________

IF THE ANSWER TO NUMBER 4 IS "YES," CONTINUE WITH QUESTION 6. IF THE ANSWER IS "NO," SKIP QUESTIONS 6-16 AND GO ON WITH NUMBER 17.

(51-53) 6. Indicate the number of students who can be seated in the media center on chairs and/or at tables, desks, or carrels.

6. ______________

(54-56) 7. Indicate the number of additional students who can be accomodated informally when the media center is full but still functioning effectively; for example: students are seated on the floor for storytelling or other appropriate activities or are engaged in browsing at shelves.

7. ______________

(57-70) 8. Mark the appropriate boxes (use X) for grade levels who are regular users of the media center throughout the year.

Pre K	K	1	2	3	4	5	6	7	8	9	10	11	12

(71-72) 9. Indicate the number of hours the media center is open during a typical week. (Use nearest whole number)

9. ______________

CHECK "YES" OR "NO" FOR QUESTIONS 10, 12-17:

(73) 10. There is a formal schedule by which classroom groups regularly come to the media center for classes taught by the media specialist.

④

10. Yes ☐ No ☐

(11-24) 11. If the answer to number 10 above is "yes," indicate which grade levels participate in this schedule by checking the appropriate boxes. (use X).

Pre K	K	1	2	3	4	5	6	7	8	9	10	11	12

(25) 12. Classroom groups are informally scheduled into the media center by arrangement between the teacher and the media specialist.

12. Yes ☐ No ☐

(26) 13. Small groups come to the media center on an individual basis as the teacher desires.

13. Yes ☐ No ☐

(27) 14. Individual students may go to the media center (with teacher permission) at any hour of the school day.

14. Yes ☐ No ☐

(28) 15. The media center is open for student use for up to one half hour before the school day begins.

15. Yes ☐ No ☐

(29) 16. The media center is open for student use for up to one half hour after the school day ends — 16. Yes ☐ No ☐

(30) 17. Individual students are permitted and are able to use audiovisual media; for example: at learning centers in their classrooms or in carrels or other appropriate places in the media center — 17. Yes ☐ No ☐

18. Indicate the number of certificated persons in each category employed to work as media professionals in this school. Use FTE (see definition) expressed to the nearest tenth for part-time employees

(31-32) a. Media specialist (30 hours library science course work and endorsement #34) — 18a. ________.____

(33-34) b. Teacher-librarian (formal library science minor, approval #86) — b. ________.____

(35-36) c. Educational media specialist (endorsement #39) — c. ________.____

(37-38) d. Other — d. ________.____

Please specify ____________________

(39-40) 19. Indicate the number of persons employed to work in this school in the capacity of media aide (see definition). Use FTE expressed to nearest tenth for part-time employees. — 19. ________.____

(41-42) 20. Indicate the number of persons employed to work in this school in the capacity of media technician (see definition). Use FTE expressed to nearest tenth for part-time employees. — 20. ________.____

21. Mark one category (use X) which best describes the permanent physical location of the major portion of print media in the school.

(43) a. Classrooms — 21a. ____________

(44) b. Media center — b. ____________

(45) c. Other — c. ____________

Please specify ____________________

22. Mark one category (use X) which best describes the permanent physical location of the major portion of the audiovisual media in the school.

(46) a. Classrooms — 22a. ____________

(47) b. Media center — b. ____________

(48) c. Other — c. ____________

Please specify ____________________

23. Mark one category (use X) to indicate the way in which the major portion of print is classified and one category to indicate the way in which the major portion of audiovisual media is classified.

			Meida	
			Print	Audio-visual
(49-50)	a. not systematically classified	a.		
(51-52)	b. Dewey Decimal System	b.		
(53-54)	c. accession number	c.		
(55-56)	d. other	d.		

Please describe
Print ____________________________
Audiovisual ____________________________

24. Mark one category (use X) to indicate the way in which the major portion of print media is cataloged and one category to indicate the way in whcih the major portion of audiovisual media is cataloged.

			Media	
			Print	Audio-visual
(57-58)	a. not cataloged	a.		
(59-60)	b. printed list	b.		
(61-62)	c. author card index	c.		
(63-64)	d. title card index	d.		
(65-66)	e. subject card index	e.		
(67-68)	f. c. d. and e above interfiled in one alphabet	f.		
(69-70)	g. other	g.		

Please describe:
Print ____________________________
Audiovisual ____________________________

⑤

25. Indicate the amount spent for the school for each of the following categories during the 1975-76 school year. Leave blank if no funds were spent. Use nearest whole dollar. If it is necessary to estimate, put a check mark in estimated column.

				Est.
(11-16)	a. print media	a.		
(17-22)	b. audiovisual media	b.		
(23-28)	c. media equipment (hardware)	c.		
(29-34)	d. media supplies; for example: charge cards, projector bulbs, blank audio tapes.	d.		

26. Media and Equipment not included in #2 and #3. Please indicate the permanent source from which the items in each category below are available to the school by placing an X under "yes", or "no" opposite each category in the school and district columns. Mark "yes", "no", "don't know" in AEAMC column.

		School		School District		AEAMC		
		yes	no	yes	no	yes	no	don't know
(35-37)	a. films	a.		a.		a.		
(38-40)	b. filmloops	b.		b.		b.		
(41-43)	c. maps to meet curriculum needs	c.		c.		c.		
(44-46)	d. mounted and/or framed pictures	d.		d.		d.		
(47-49)	e. replicas (close reproduction of an object; for example, a skeleton)			e.		e.		
(50-52)	f. art objects (reproductions, for example, a sculpture)	f.		f.		f.		
(53-55)	g. models (representations of actual objects, frequently reduced, may have movable parts)	g.		g.		g.		
(56-58)	h. kits (variety of media in one package, excluding sound filmstrips)	h.		h.		h.		
(59-61)	i. realia (real objects; for example, a Japanese kimona)	i.		i.		i.		
(62-64)	j. dioramas (scenic representations, often contain miniature objects with realistic painted background)	j.		j.		j.		
(65-67)	k. games	k.		k.		k.		
(68-70)	l. programmed instruction material							
(71-73)	m. microforms (microfilm, microfiche)	m.		m.		m.		
(74-76)	n. videotapes	n.		n.		n.		
(77-79)	o. dial access	o.		o.		o.		
⑥ (11-13)	p. 8mm projector	p.		p.		p.		
(14-16)	q. 8mm filmloop projector	q.		q.		q.		
(17-19)	r. closed circuit television	r.		r.		r.		
(20-22)	s. video camera	s.		s.		s.		
(23-25)	t. dry mount press	t.		t.		t.		
(26-28)	u. slide camera	u.		u.		u.		
(29-31)	v. transparency production capability including thermofax, diazo, etc.	v.		v.		v.		
(32-34)	w. primary typewriter	w.		w.		w.		
(35-37)	x. Other (Specify)	x.		x.		x.		

27. Note the titles of adults who may be functioning to implement a media program in the school which head the vertical columns. Place an X in the boxes under each title if the adult(s) holding the title consistently and regularly perform(s) the service described at the left.

⑥		Media Specialist	Media Aide	Media Technician	Principal	School Secretary	Classroom Teacher	Other	Please Specify
(38-44)	a. Checks materials out to students for their use.	a.	a.	a.	a.	a.	a.	a.	
(45-51)	b. Schedules equipment to be used by teacher.	b.	b.	b.	b.	b.	b.	b.	
(52-58)	c. Teaches students use of encyclopedia.	c.	c.	c.	c.	c.	c.	c.	
(59-65)	d. Teaches use of reference other than encyclopedia.	d.	d.	d.	d.	d.	d.	d.	
(66-72)	e. Teaches students use of card catalog.	e.	e.	e.	e.	e.	e.	e.	
(73-79)	f. Teaches teachers to use equipment.	f.	f.	f.	f.	f.	f.	f.	
⑦ (11-17)	g. Teaches students to use equipment.	g.	g.	g.	g.	g.	g.	g.	
(18-24)	h. Does media guidance (For example, guides students in selection of media and in the development of literary taste and evaluative skills).	h.	h.	h.	h.	h.	h.	h.	
(25-31)	i. Selects print media for purchase.	i.	i.	i.	i.	i.	i.	i.	
(32-38)	j. Selects nonprint media for purchase.	j.	j.	j.	j.	j.	j.	j.	
(39-45)	k. Develops bibliographies for curriculum units	k.	k.	k.	k.	k.	k.	k.	
(46-52)	l. Calls teacher's attention to newly acquired media.	l.	l.	l.	l.	l.	l.	l.	
(53-59)	m. Orients new teachers to available media and media services.	m.	m.	m.	m.	m.	m.	m.	
(60-66)	n. Helps teachers to integrate media with their instructional activities.	n.	n.	n.	n.	n.	n.	n.	
(67-73)	o. Orders new media for previewing.	o.	o.	o.	o.	o.	o.	o.	
⑧ (11-17)	p. Serves as a member of curriculum committees.	p.	p.	p.	p.	p.	p.	p.	
(18-24)	q. Obtains media from AEAMC.	q.	q.	q.	q.	q.	q.	q.	
(25-31)	r. Inventories media.	r.	r.	r.	r.	r.	r.	r.	
(32-38)	s. Inventories media equipment.	s.	s.	s.	s.	s.	s.	s.	
(39-45)	t. Provides blank tapes for recording.	t.	t.	t.	t.	t.	t.	t.	
(46-52)	u. Provides projector lamp replacements.	u.	u.	u.	u.	u.	u.	u.	
(53-59)	v. Repairs books.	v.	v.	v.	v.	v.	v.	v.	
(60-66)	w. Identifies material for withdrawl.	w.	w.	w.	w.	w.	w.	w.	

(67-69) 28. Enrollment of largest class group assigned to one teacher 28. ______________

(70) 29. Number of floor levels in the school (count all levels which would require use of stairs or elevators to move audiovisual equipment) 29. ______________

30. Name and title or person filling out questionnaire

______________________________ ______________________________
Name Title

RETURN QUESTIONNAIRE TO:

Betty Jo Buckingham, Consultant
Educational Media Section
Department of Public Instruction
Grimes State Office Building
Des Moines, Iowa 50319

EDITING GUIDELINES FOR COMPLETED INSTRUMENT

General Guidelines

1. Is survey for one school only - should be returned if more than one unless it is one center serving two or more schools, e.g. K-12 library serving K-6, 7-12 organization.
2. Answeres in estimate column should be transferred to left column with check mark in est. column.
3. Cross out zero or leave blank where no answer is required.
4. Use small red c to left of letter or number to indicate need for follow-up or call (small c to left).
5. Place small red c at upper right hand corner of first page to indicate presence in form of one or more itmes for follow-up.
6. If district is used or implied (e.g. one for 3 schools) to modify any answer except 26, delete and assume a "0".
7. Resequence pages if needed.

Specific Guidelines

QUESTION 1 Answer in both parts - Number is all that will be punched.

1 Numbers - if readable to complete, assume correct. Check others in DPI sources.

QEUSTION 2 a - Must be answered
b - Should be larger or the same as 2a
c - Must be answered
d-n - Answer, or blank acceptable
h - Some forms have stray mark. Do not mistake for the number "1".

QUESTIONS 2&3 Red c for follow-up to left of letter. All responses should be in numerical form.

2 If the word "set" occurs in any answer to Question 2, cross out set and leave number if item ask's for sets. Indicate a call or follow-up if item does not ask for sets.

2 If a is larger than b, reverse the numbers.

QUESTION 3 If answer implies that response is for media center equipment only, indicate a call or follow-up.

3 j - It is assumed that this question includes TV sets and monitors. Add to this number any TV sets if noted elsewhere.

3 t, u, - If respondent lists more types than total, editor should cross out reply and insert total equal to types.

QUESTION 4 Should be answered.

4 If answer is no, cross out any answers to questions 6-16. Continue with 17.

QUESTION 5 If school name appears in 5 draw line through that part of answer. Tally responses.

QUESTION 6 Should be answered if answer to 4 is Yes.

QUESTION 7 If question 7 seems to be a total of 6 and 7, call back.

QUESTION 8 Should be answered if answer to 4 is Yes.

QUESTION 9 Should be answered if answer to 4 is Yes.
If answer to number 9 appears to relate to hours per day, check with Question 18 for relevant personnel time in center (e.g. fulltime media specialist or aide would indicate center probably open 30-40 hours per week; halftime total staff, 15-20 hours).

QUESTION 17 Should be answered.

QUESTION 18 List answer under d. Please specify and tall identical responses. If non certificated persons are listed under 183, cross out both number and name. If there is no response to 19, transfer this information; if there is a response to 19, mark 18a with a little c. If total exceeds 2 for elementary or 4 for secondary consult professional editor or mark with c.

QUESTION 19	Up to 3 seems a reasonable response.
QUESTION 20	0-2 seems reasonable.
QUESTIONS 18-20	Add 0 after decimal if whole number without decimal is reported. If respondent added own decimal point, cross out and rewrite in same space. If media personnel are listed in 18-20, there should be related indications in 27.
QUESTION 21	If other is checked and any of synonyms for media center is used, cross out answers for 21c and "x" 21b.
QUESTIONS 21&22	If more than one category checked, refer to professional editor for interpretation.
QUESTIONS 23&24	There should be only 1 "x" per column. Two or more "x"s per column - indicate call back or follow-up. If other not checked, but blank filled in mark with "x". Must have answers to both parts or call.
QUESTION 24	If c-f checked, mark out all except f.
QUESTION 25	Group totals instead of individual amounts require call. Estimates should be made if actual figures aren't available. If all 4 are blank, indicate call or follow-up. Budget should relate to collection and personnel. If not, call back.
QUESTION 26	Should be answered under each category on each line for total of 3 "x"s per line except line x.
QUESTION 27	Most should have at least 1 response per line. Some will have more than 1. If no answers appear or if larger number of lines are blank, check with professional editor.
27	Column: Media Specialist. If there are responses in this column, there must be at least a part time media specialist indicated in Question 18, a-d. If there is not, a call or follow-up is indicated.
27	Column: Media Aide/Media Technician. If there are responses in this column, there must be at least a part time media aide indicated in Media 19; or media technician - 20.
QUESTIONS 28&29	Must have answers.
QUESTION 30	If Question 30 is signed by a Media Specialist, Media Aide or Media Technician, that person should be reflected in Questions 18-20 and Question 27. If not, call back.
QUESTIONS 21-22	If any synonym for a Media Center is listed in 21-22c or if 21b and 22b is checked, Question 4-16 must be filled in and Question 18-20 and 27 should be checked for possible personnel in the center.

State of Iowa
DEPARTMENT OF PUBLIC INSTRUCTION
Educational Media Section
Grimes State Office Building
Des Moines, Iowa 50319

1976-1977
MEDIA SURVEY
PRELIMINARY REPORT
MAY 1977

The 1976-1977 Media Survey was conducted by the Iowa Department of Public Instruction and the Iowa Educational Media Association to determine the present situation in public school libraries and media centers especially in relation to the recommendations for development contained in "Phase I" of two Department publications, Plan for Progress in the Media Center, K-6, and Plan for Progress in the Media Center, 7-12. All Iowa public schools were requested to participate.

Fifteen hundred forty-two usable responses representing 1,634 public schools in Iowa were included in the report on the 1976-1977 library media survey. Not counted in this tally are the reports received from Special Education Schools since these will need to be handled separately.

Of the 1,542 reporting centers, nearly 91% have a physical space used as a library or media center. For secondary schools the figure rises to over 98%. Slightly over 86% of the K-6 elementary schools report libraries or media centers.

Over 71% of the 1,303 schools listing a name use the name library or library in combination with another term. Media center is the next most popular term being used by around 24% of the schools. These two figures include 6.5% of the schools which use library media center as a name.

Including all 1,542 schools, library media center seating averages range from under 7 for elementary schools which have not reached Phase I of the Plan for Progress in the Media Center, K-6 to nearly 78 for secondary schools which have reached Phase I of the Plan for Progress in the Media Center, 7-12. Phase I, in both guides, calls for seating the largest class plus 10.

Elementary library media centers are open for an average of 33.4 hours per week; secondary schools average 38.4 hours. Actually over 66% of all reporting secondary school centers are open 40 or more hours per week while less than one third of the elementary schools fall in this category.

Despite the average of 33.4 hours open per week, over 62% of the elementary school centers report being open at least one half hour before school. Sixty-five per cent are open that long after school. Over 86% of the secondary school libraries or media centers are open before, nearly 84% are open after.

Nearly 60% of the elementary schools have a formal schedule for instruction. However 70% provide for individual scheduling of classes or small groups and about 76% allow individual students to visit the library or media center.

At the secondary school level only a little over 21% of the schools use formal class schedules while over 90% provide for informal scheduling of classes or small groups and for individual visits.

Grades 1-4 are most frequently provided a formal schedule. Grade 5, kindergarten, and grade 6 also frequently have formally scheduled instruction. Fewer than one-sixth as many schools provide formal instruction at the junior high school level.

Phase I of Plan for Progress in the Media Center recommends a basic ratio of 2 professionals in the library or media center for every 500 children or major fraction thereof. Forty-five per cent of the secondary schools and 16% of the elementary schools meet or exceed this recommendation. The average full time equivalent library media professional for elementary schools not meeting the recommendations was .194. Secondary schools not meeting the recommendation averaged .786 professional on the library media staff per school. If only the professionals with the appropriate library endorsement or approval were used, these figures would probably drop slightly.

Seven hundred fifty-one schools or nearly 49% provide both professional and support staff for their library media centers. Over half the secondary schools do. The ratio of professional staff to support staff is 1 to 1.38 for K-6 and 1 to 1.03 for 7-12.

If only persons properly certificated and endorsed or approved to serve as school media specialists (that is, teacher librarian approval or school librarian or director of library services endorsement), 702 schools fall in this category, providing an average per library or library media center of a .7 time librarian and a nearly .9 time clerk or technician. The ratio is 1 professional to 1.24 support persons.

Four hundred twenty-seven schools provide professional staff with no support staff. The average per school is nearly eight-tenths.

Two hundred eight schools, or over 13%, use unsupervised clerical or technical staff in their centers. This includes nearly 24% of the K-6 schools and under 2% of the 7-12 schools.

Most material is housed in the library or media center. Over 80% of the schools house most of the books there. Fifty-six per cent have most audiovisual materials there.

Ninety per cent of the schools classify books, and 40% of them classify audiovisual materials, using the Dewey Decimal system.

About the same per cent index the books in a card catalog and around 48% index the audiovisual materials in a card catalog.

If one assumes that schools without libraries or media centers would not be likely to use a classification system or a card catalog, the percentage of book collections classified and indexed by a card catalog goes up to 99%. Audiovisual materials are also higher, reaching over 50% indexed in a card catalog.

Book collections average 5,645 volumes. Elementary school collections average 4,872 and secondary school collections average 6,791. When all print and nonprint items, except professional books and magazines, are added, the average is 6,637. The elementary school figure is 5,632, the secondary school figure is 8,115. Professional book and magazine collections average 79 volumes. These figures are below the Phase I recommendations. In fact fewer than 30% of the schools in the K-6 span and slightly over 20% of the schools in the 7-12 span meet or exceed the recommended figures in Phase I of the Plan for Progress in the Media Center, for books. Other figures on comparisons between holdings and Phase I will be released later.

Equipment collections come closer to the recommendations than do the materials collections. The average school has 4 sixteen millimeter projectors, 6.5 filmstrip projectors, 11 overhead projectors, 9.5 record players, and 18.5 tape recorders or players. In some instances there are marked differences between the elementary and secondary schools. For example, Span 1 (K-6) shows an average of 2.85 sixteen millimeter projectors, Span 2 (7-12) shows an average of 5.95. The figures for overhead projectors are 8.98 for Span 1 and 13.92 for Span 2. It is only on individual use equipment such as filmstrip viewers and listening stations and on record players that average elementary school holdings exceed secondary school holdings. Statistics on the relation of teaching stations to equipment will be released later.

Almost 64% of the schools meet the Phase I recommendation for sixteen millimeter projectors. Seventy-nine per cent of the Span 2 schools and over 53% of the Span 1 schools meet the recommendation. Over 50% of all reporting schools meet the recommendation for overhead projectors. In this case, nearly 64% of the K-6 or Span 1 schools meet the recommendation and 39% of the secondary schools.

Elementary schools spent an average of $6.40 per student for print and audiovisual materials in 1975-1976. Secondary schools spent an average of $8.53. When supplies and equipment were added, the averages become $9.05 for K-6 and $12.41 for 7-12. Expenditures range from below $1.00 to $37.27 for elementary schools and to $89.66 for secondary schools.

There are some 53 quantified comparisons between Phase I of the Plan for Progress series and the present status in Iowa public school media centers. Nearly one-fourth of the reporting schools meet over half of the Phase I recommendations. Eighty-five per cent meet at least one-third of the recommendations.

A more complete report will be issued during the forthcoming school year. This report will include more tables to support the conclusions given here, specific information on the quantified comparisons with the Plan for Progress series, and breakdown of information by school size code and by AEA.

GLOSSARY

Approval 86: See Teacher Librarian

Endorsement 34: See School Librarian

IEMA: Iowa Educational Media Association

DPI: Iowa State Department of Public Instruction

Media Center: The term media center is used in state law and department guidelines to "designate a centralized collection of materials production facilities, instructional hardware, and services with a staff of professional personnel working closely with students, teacher, and administrators . . . School systems may use other terms for a media center, e.g., instructional materials center, learing resource center, library, library media center." (Plan for Progress in the Media Center, Facilities, State of Iowa, Department of Public Instruction, 1973)

Quantified Guideline: These are recommendations or proposed goals established in Phase I of Plan for Progress in the Media Center, K-6 or Plan for Progress in the Media Center, 7-12 to encourage the development of school media centers, stated in specific measurable amounts.

School Librarian: School Librarian (Endorsement 34) requires completion of an approved major program in library science of at least 30 semester hours. It carries with it permission to serve as a school media specialist or librarian in grades K-12.

Size: The seven size categories or codes used by the Management Information Division to divide school districts are used in this study.

Size 1	up to 499
2	500-749
3	750-999
4	1,000-1,499
5	1,500-1,999
6	2,000-2,999
7	3,000-over

Span: The schools reporting were divided into five categories of grades:

Span 1. K-6 including all schools which would fall within that range. Preschools were included with the appropriate category.

Span 2. 7-12 including all schools whether junior high schools, senior high schools, junior-senior high schools or other whose grades fell within this range.

Span 3. K-8 including all schools which would fall within this range but not within the K-6 or middle school ranges.

Span 4. Middle school including schools falling within the 4-8 grade range which do not fall within the 7-12 range.

Span 5. Including all schools with too wide a range to fit any other categories.

Teacher Librarian: (Approval 86) Requires an approved minor program in library science of at least 20 semester hours. It carries with it permission to serve as a school media specialist or librarian at the level of basic certification. For example, holders of Approval 86 with elementary teaching certificates can serve as K-8 school media specialists or librarians.